elumen8

Kudos 700 Beam
User Manual

Order codes: ELUM019

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! **KEEP THIS EQUIPMENT AWAY FROM RAIN, MOISTURE AND LIQUIDS**	**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.
- 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 is dropped or damaged, disconnect the mains power supply immediately and have a qualified engineer inspect the equipment before operating again.
- 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.
- 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 Prolight dealer for service.

- 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.
- Warning! Risk Group 2 LED product according to EN 62471. Do not view the light output with optical instruments or any device that may concentrate the beam.
- 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 LED in operation as it may damage/be harmful to the eyes. Avoid looking directly into the light source.

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!
To avoid damage to internal parts ie. optics, colour filters, gobos, prisms, frost filters, iris, shutters, motors, belts, wiring or LEDs never expose the front lens to direct sunlight, lighting fixtures or lasers even when the fixture is not in use.
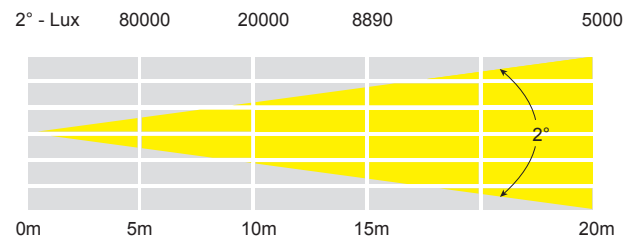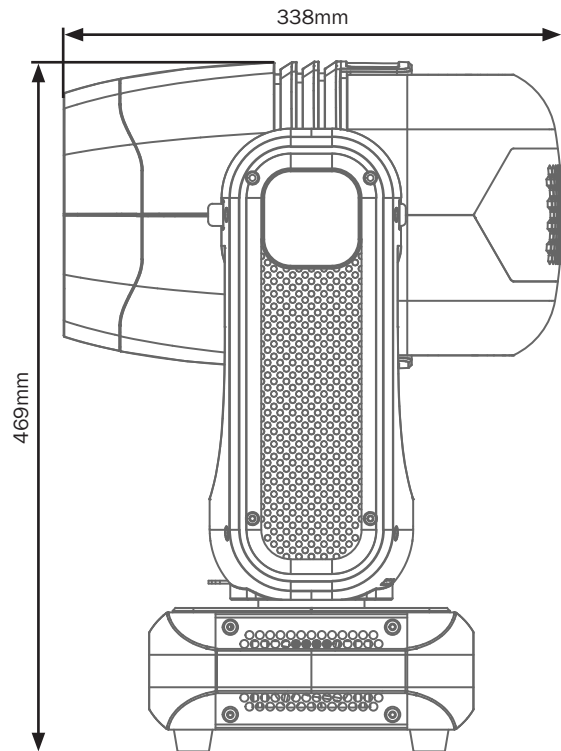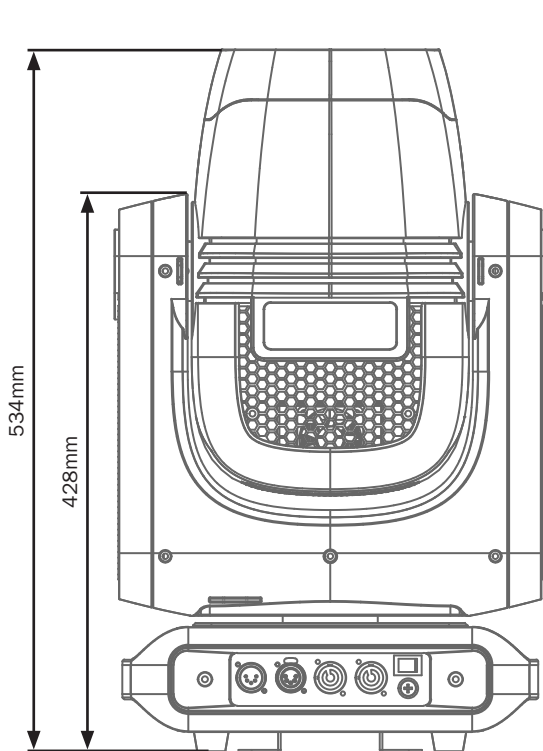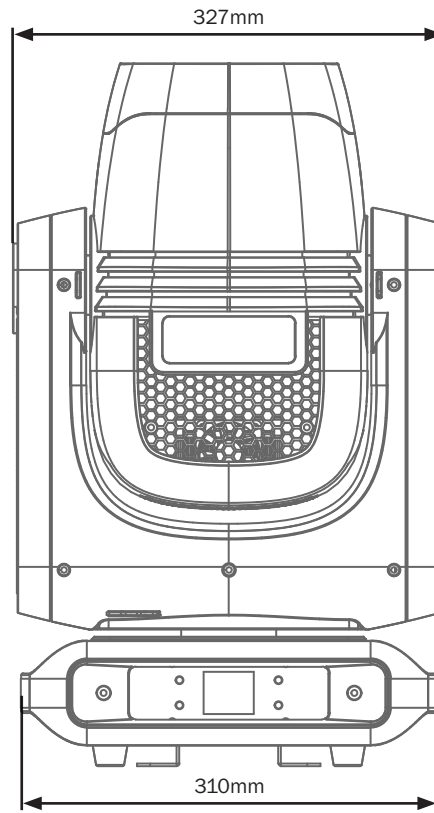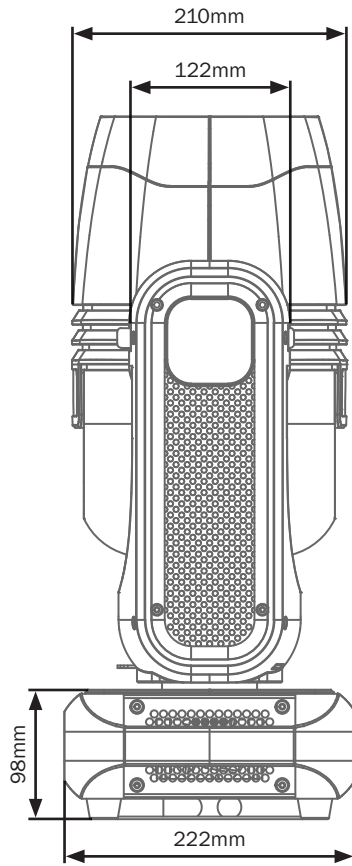
Kudos 700 Beam

The Kudos 700 Beam projects a tight 2° concentrated beam from its powerful 110W LED source. Inside the ergonomic head are 2 circular rotating prisms (8 facet and 16 facet), 12 colours + 5600K + 3200K + open, 17 fixed gobos + open, 12° frost filter and a motorised focus. The powerful beam cuts through haze with lightning-fast speed, creating stunning aerial effects, drop in the frost filter and you can also achieve wash effects making it even more versatile. RDM along with 16-bit pan/tilt positioning and smooth dimming are also included in this fixtures impressive features, along with all the fundamental characteristics you would expect from eLumen8, backed up by a 2 year warranty.

- 1 x 110W white LED (7500K)
- Beam angle: 2°
- 20,000 Lux @ 10m
- 2kHz refresh rate
- Motorised focus
- 8 facet circular rotating prism plus 16 facet circular rotating prism
- Frost filter (12°)
- Gobo wheel: 17 fixed gobos + open
- Colour wheel: 12 colours + 5600K + 3200K + open
- DMX channels: 12 or 18 selectable
- RDM (Remote Device Management)
- Manual modes
- Pan/tilt transit lock
- Pan/tilt auto correction
- 16-Bit pan/tilt positioning
- Pan: 540°, Tilt: 270°
- 0-100% dimming and variable strobe
- Quick release omega clamps included
- 4 push button menu with 1.8" LCD display
- PowerCON input/output
- 5-Pin XLR input/output
- Fan cooled

Specifications	Kudos 700 Beam
Power consumption	157W
Fuse	F2A 250V
Power supply	100~240V, 50/60Hz
Dimensions	534 x 327 x 222mm
Weight	14kg
Order code	ELUM019

2° - Lux	80000	20000	8890	5000

2°

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

210mm

122mm

98mm

222mm

327mm

310mm

534mm

428mm

338mm

469mm

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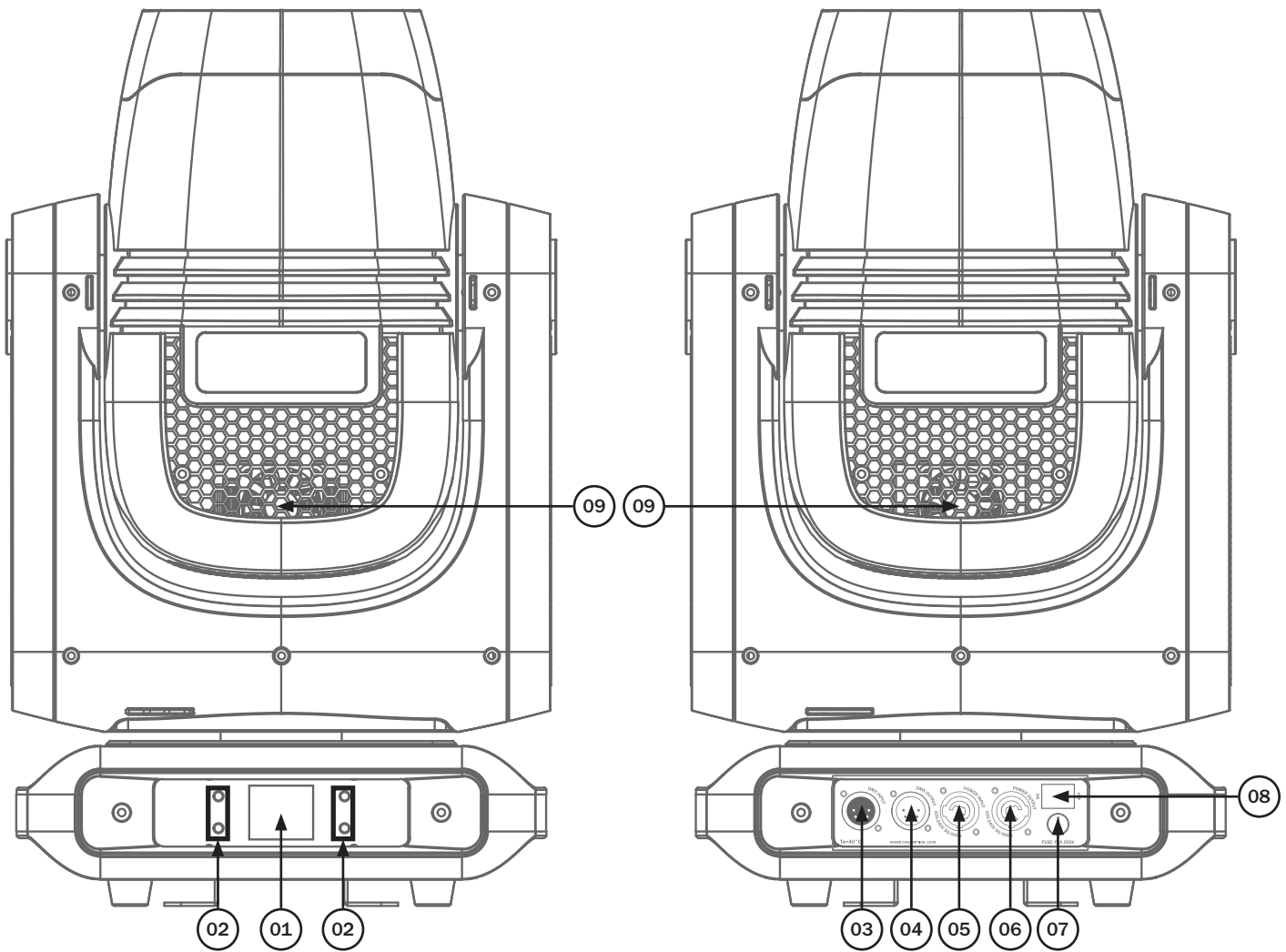
01 - LCD display

02 - Function buttons

03 - 5-Pin DMX input

04 - 5-Pin DMX output

05 - PowerCON input

06 - PowerCON output

07 - Fuse F2A 250V

08 - Power switch

09 - 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. 14kg - 140kg 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.
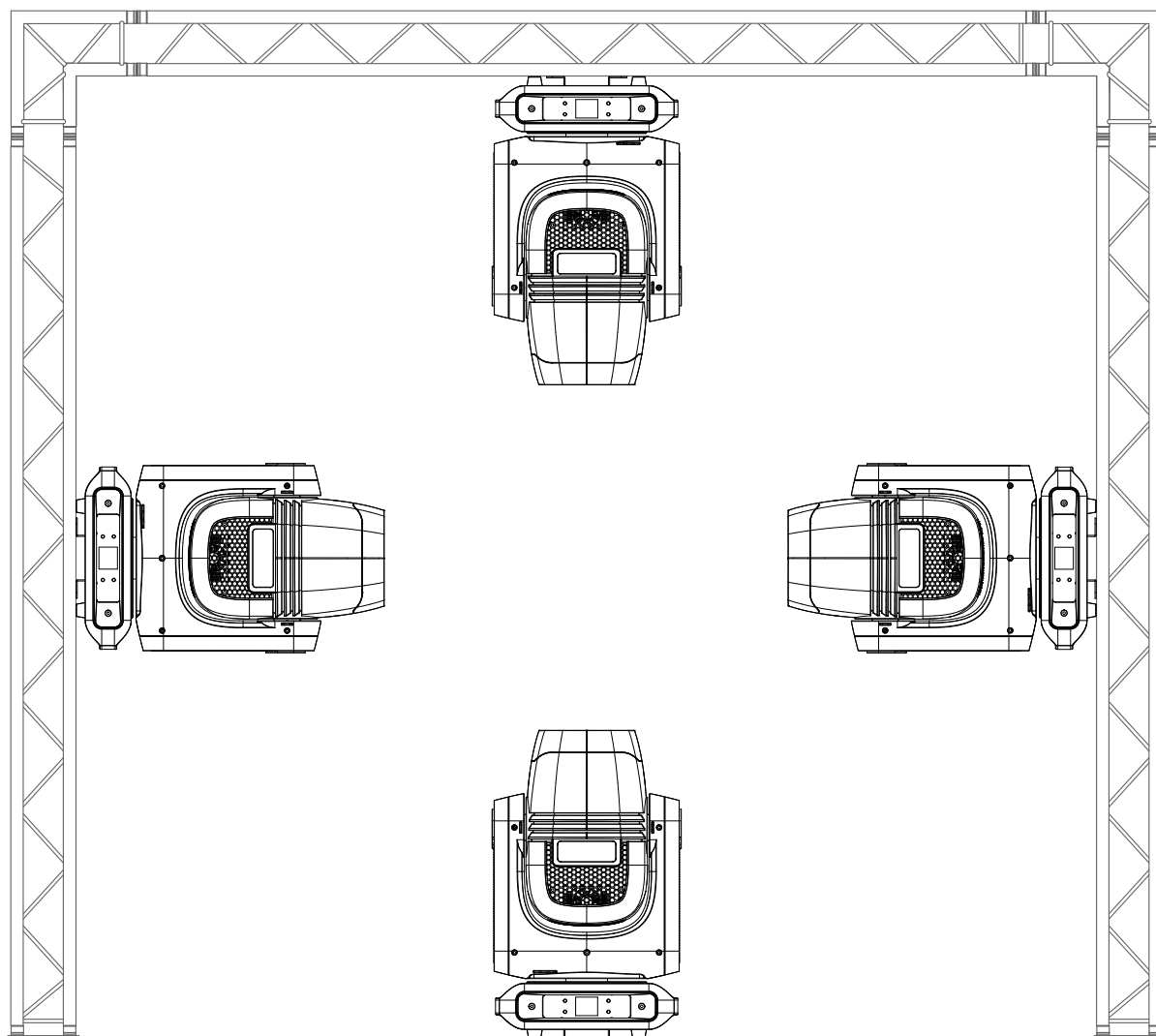
The eLumen8 Kudos 700 Beam can be operated in a number of mounting positions as shown in the diagram above, hanging upside-down from the ceiling or truss, mounting sideways on truss or stood upright on a flat level surface. Always use a safety wire as an extra safety precaution to prevent damage/injury 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.

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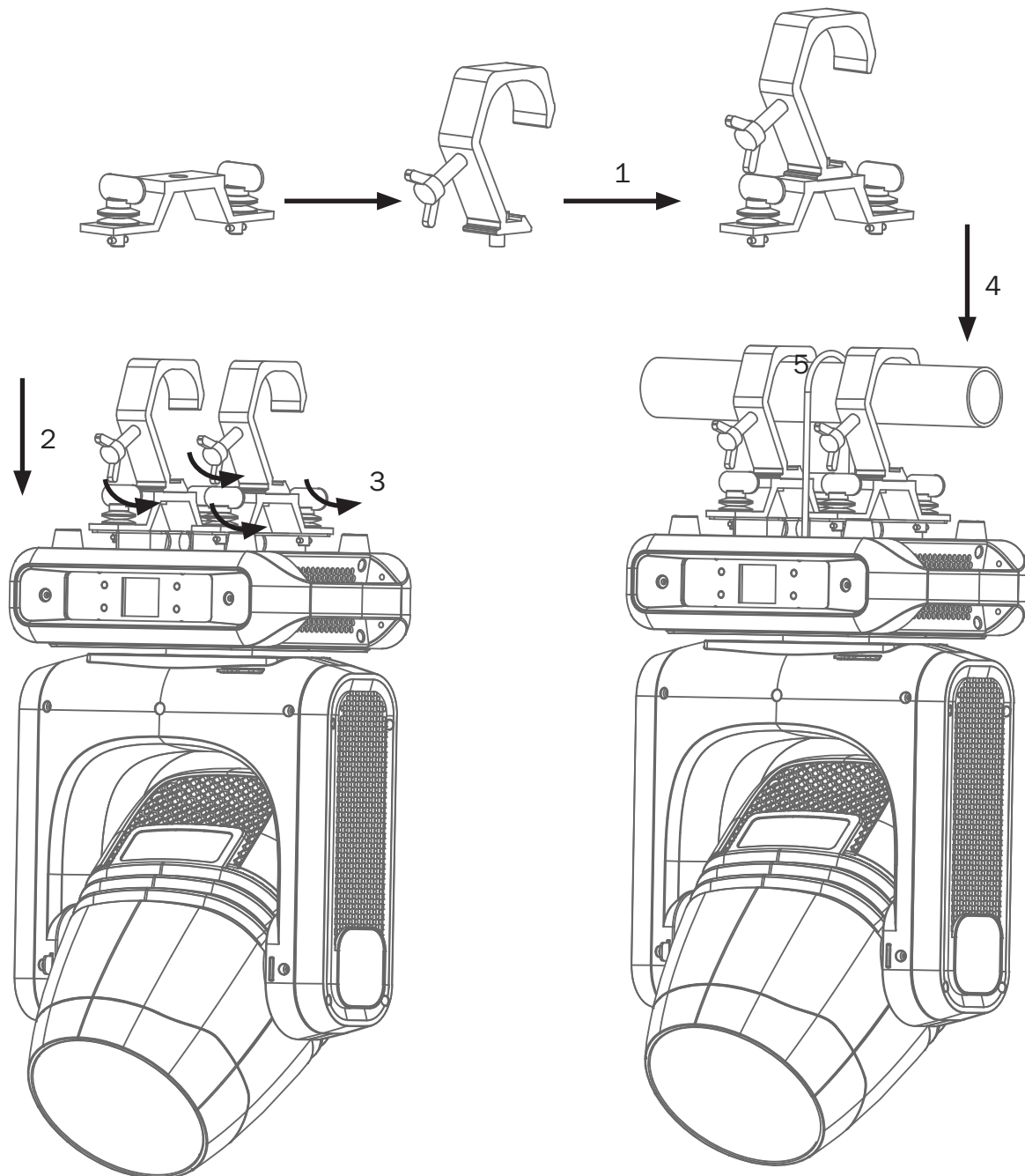
Pan mechanism lock and release every 90°
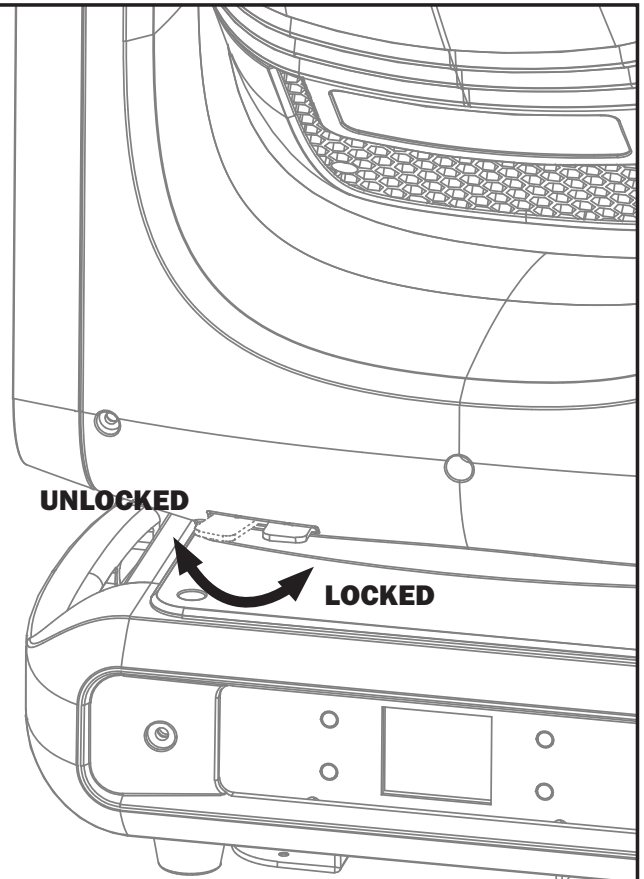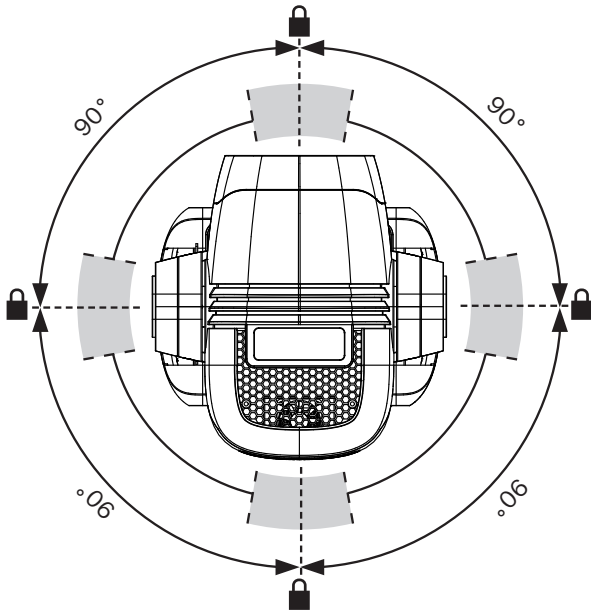
Tilt mechanism lock and release every 90°
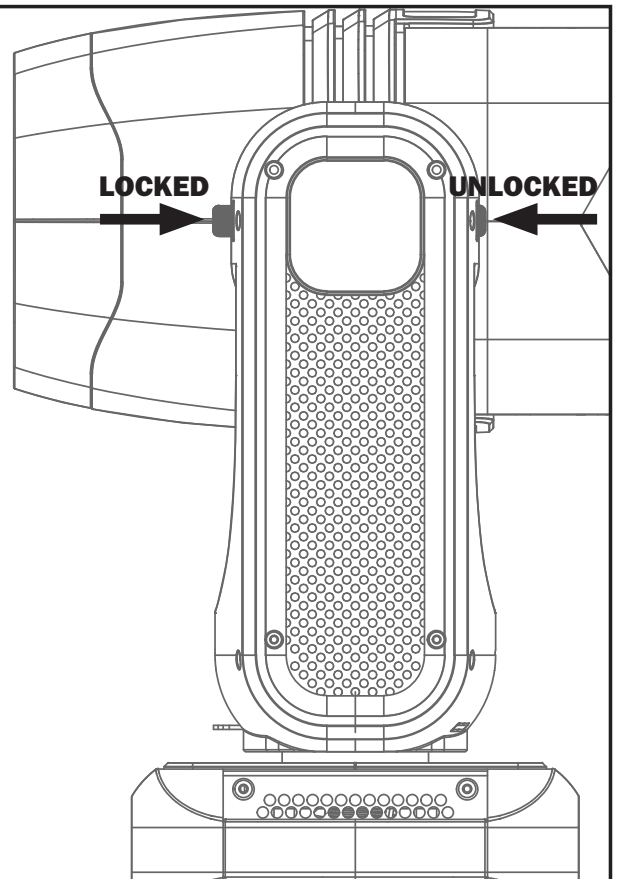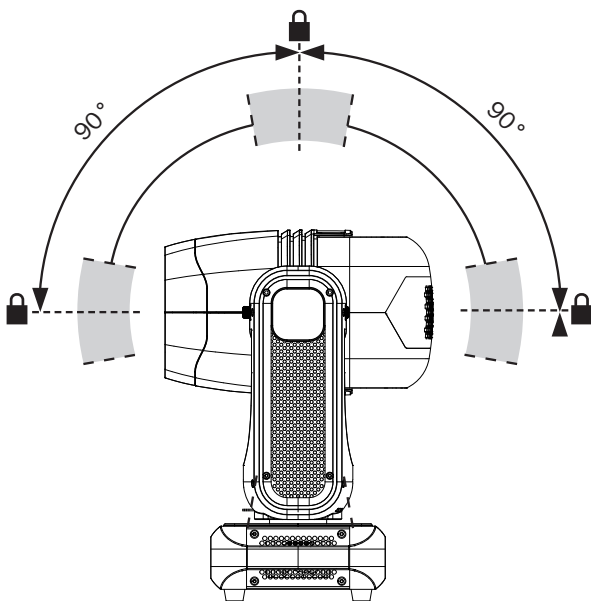
Control Panel Menu:

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 Kudos 700 Beam**", "**System Initialising...**" whilst the unit performs its motor reset. 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 "**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.
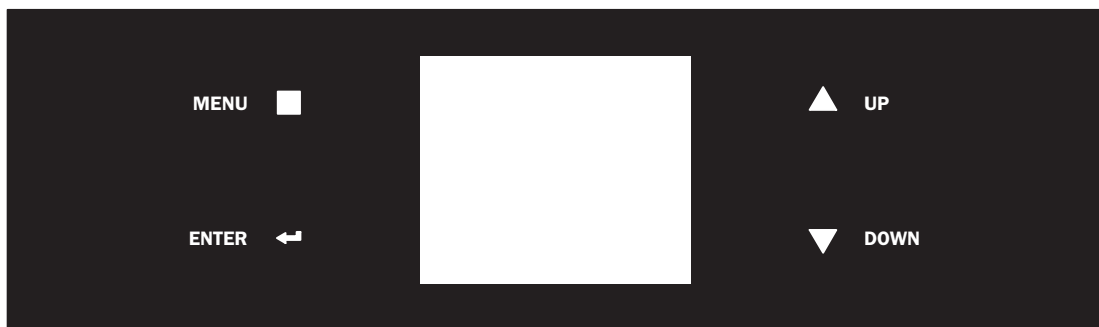
Error Codes:

When the unit is powered on the unit will automatically perform a motor reset. If there is a problem with any of the motors you will need to check the Error Log once the home screen appears.
To do this follow the instructions on page 17 (Error Log) to show what error has occurred.

Home Screen:

Please see the diagram below with a key to what the sections of the home screen mean.

01 - DMX Address - This can be adjusted in the DMX Address Menu (see page 11).

02 - SYS: Ready - This indicates the unit is ready to use.

03 - CHL: - This is the DMX Channel mode the fixture is currently in, either 12CH or 18CH.

04 - DMX: This will either show Fail (there is no DMX signal) or OK (there is DMX signal).

05 - TEM: - This shows the fixture temperature.

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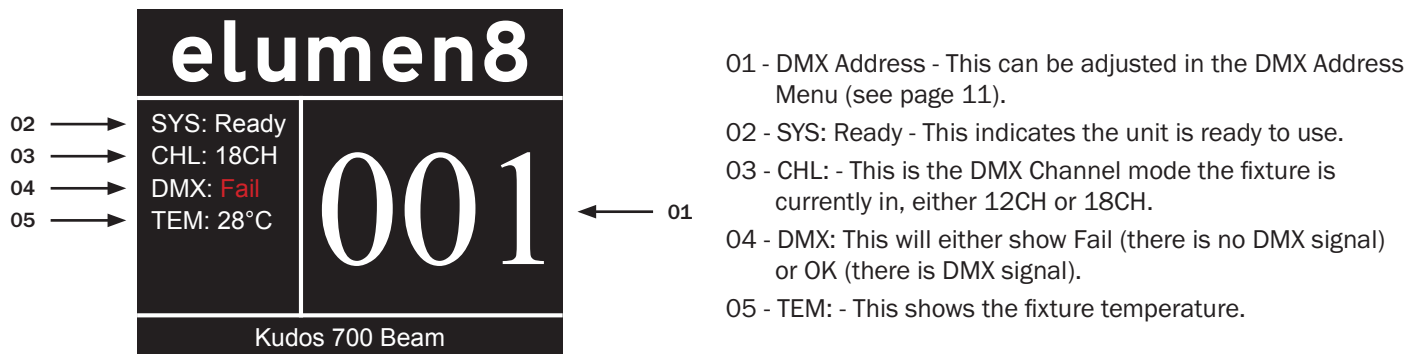
Main Menu - Defaults are in grey

```
┌──────────────┐   ┌──────────────┐
│ 1) DMX       │───│ 1) Address   │
│ Address      │   │ xxx          │
└──────┬───────┘   └──────────────┘
       │           ┌──────────────┐
       │           │ Default      │
       │           │ 001          │
       │           └──────────────┘
       │
┌──────┴───────┐   ┌──────────────┐
│ 2) Channel   │───│ 1) 12Channel │
│ Mode         │   └──────────────┘
└──────┬───────┘   ┌──────────────┐
       │           │ 2) 18Channel │
       │           └──────────────┘
       │
┌──────┴───────┐   ┌──────────────┐
│ 3) DMX Fail  │───│ 1) Hold      │
└──────┬───────┘   └──────────────┘
       │           ┌──────────────┐
       │           │ 2) Blackout  │
       │           └──────────────┘
       │
```
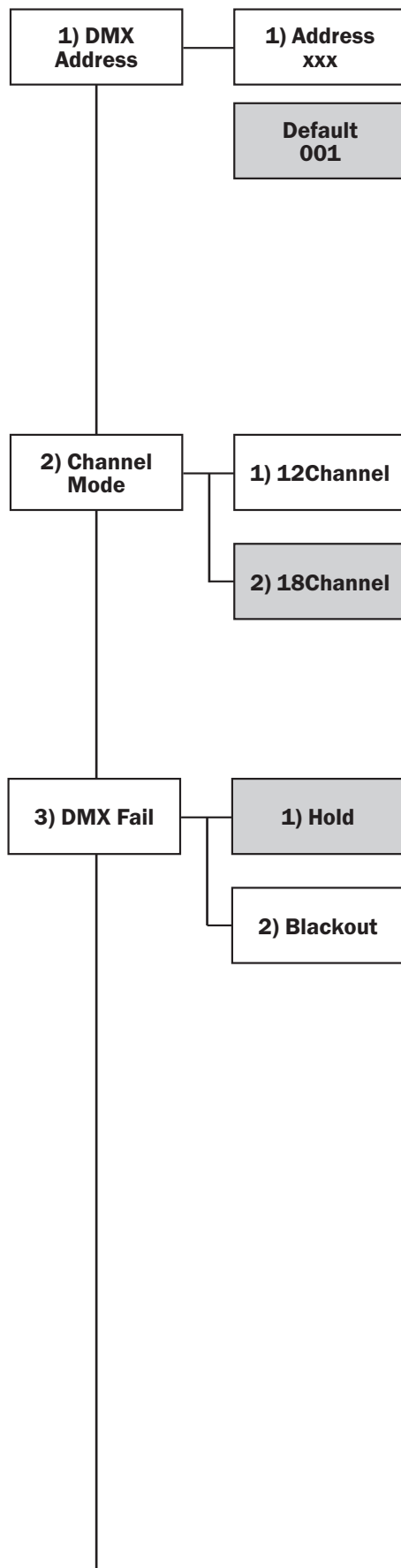
DMX address:

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.

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```
4) Manual          1) Pan
Control            xxx

                   2) Tilt
                   xxx

                   3) Dimmer
                   xxx

                   4) Strobe
                   xxx

                   5) Colour
                   xxx

                   6) Gobo
                   xxx

                   7) Prism1
                   xxx

                   8) Prism 1 Rot
                   xxx

                   9) Prism2
                   xxx

                   10) Prism2 Rot
                   xxx

                   11) Frost
                   xxx

                   12) Focus
                   xxx

                   Default
                   000
```
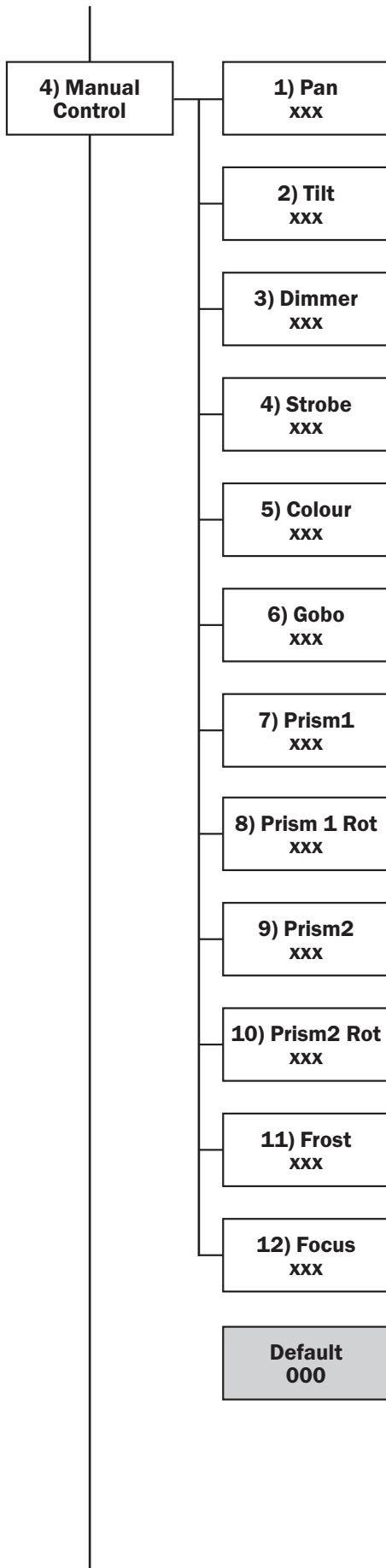
Manual control:

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.

```
┌──────────────┐    ┌──────────────┐
│ 5) Auto Test │────│   1) Stop    │
└──────────────┘    └──────────────┘
                    ┌──────────────┐
                    │   2) Run     │
                    └──────────────┘

┌───────────────┐   ┌──────────────┐
│ 6) Motor Reset│───│   1) Yes     │
└───────────────┘   └──────────────┘
                    ┌──────────────┐
                    │   2) No      │
                    └──────────────┘

┌──────────────┐    ┌──────────────┐    ┌──────────────┐
│ 7) P/T Invert│────│ 1) Pan Invert│────│   1) ON      │
└──────────────┘    └──────────────┘    └──────────────┘
                                        ┌──────────────┐
                                        │   2) Off     │
                                        └──────────────┘
                    ┌──────────────┐    ┌──────────────┐
                    │ 2) Tilt Invert│───│   1) ON      │
                    └──────────────┘    └──────────────┘
                                        ┌──────────────┐
                                        │   2) Off     │
                                        └──────────────┘
```
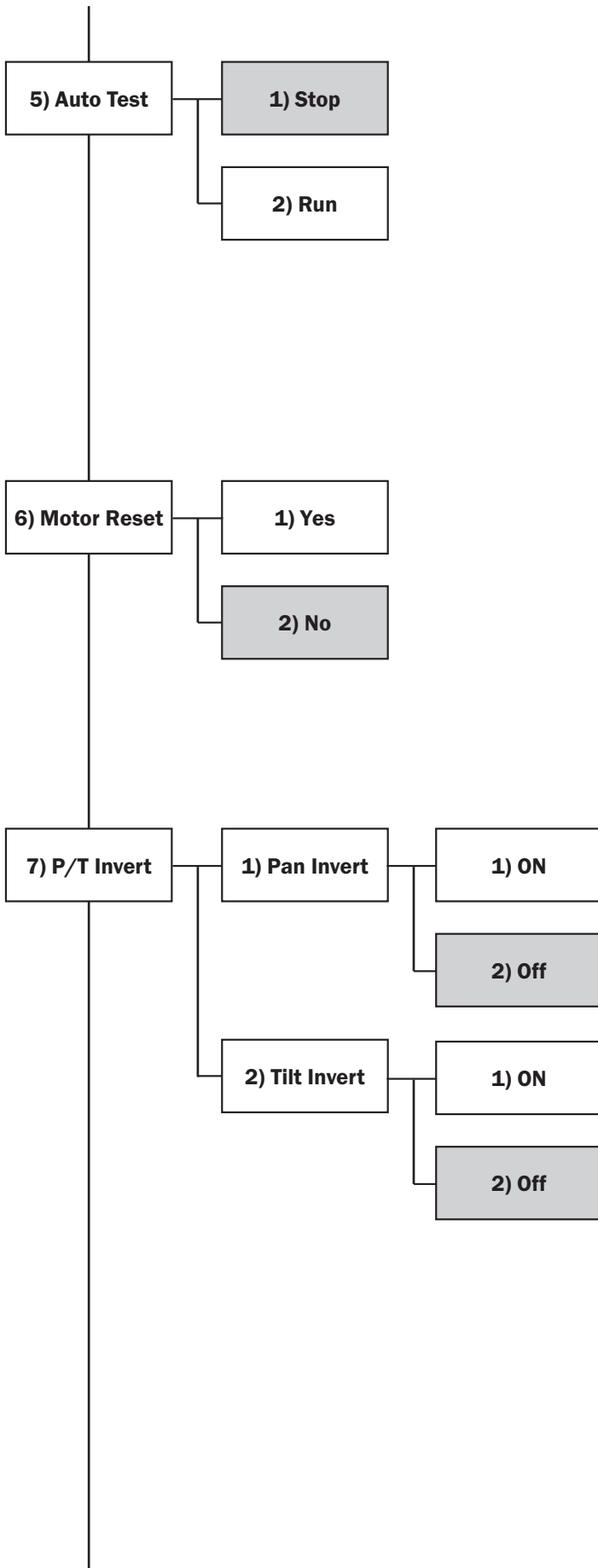
Auto test:

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 and use the "**UP**" and "**DOWN**" buttons to select between "**Run**" and "**Stop**". Press the "**ENTER**" button to confirm the setting.

Please note: Auto test will automatically stop when exiting the auto test menu.

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 "**Yes**" and "**No**". Press the "**ENTER**" button to perform the motor reset when yes is selected.

Pan invert:

To access the pan invert setting, press the "**MENU**" button on to show "**P/T Invert**" on the LCD display. Press the "**ENTER**" button and use the "**UP**" and "**DOWN**" buttons to select "**Pan Invert**". Press the "**ENTER**" button and use the "**UP**" and "**DOWN**" buttons to select between "**ON**" and "**Off**". Press the "**ENTER**" button to confirm the setting.

Tilt invert:

To access the tilt invert setting, press the "**MENU**" button on to show "**P/T Invert**" on the LCD display. Press the "**ENTER**" button and use the "**UP**" and "**DOWN**" buttons to select "**Tilt Invert**". Press the "**ENTER**" button and use the "**UP**" and "**DOWN**" buttons to select between "**ON**" and "**Off**". Press the "**ENTER**" button to confirm the setting.

8) Blackout	1) BL.O P/T	1) ON
		2) Off
	2) BL.O Colour	1) ON
		2) Off
	2) BL.O Gobo	1) ON
		2) Off
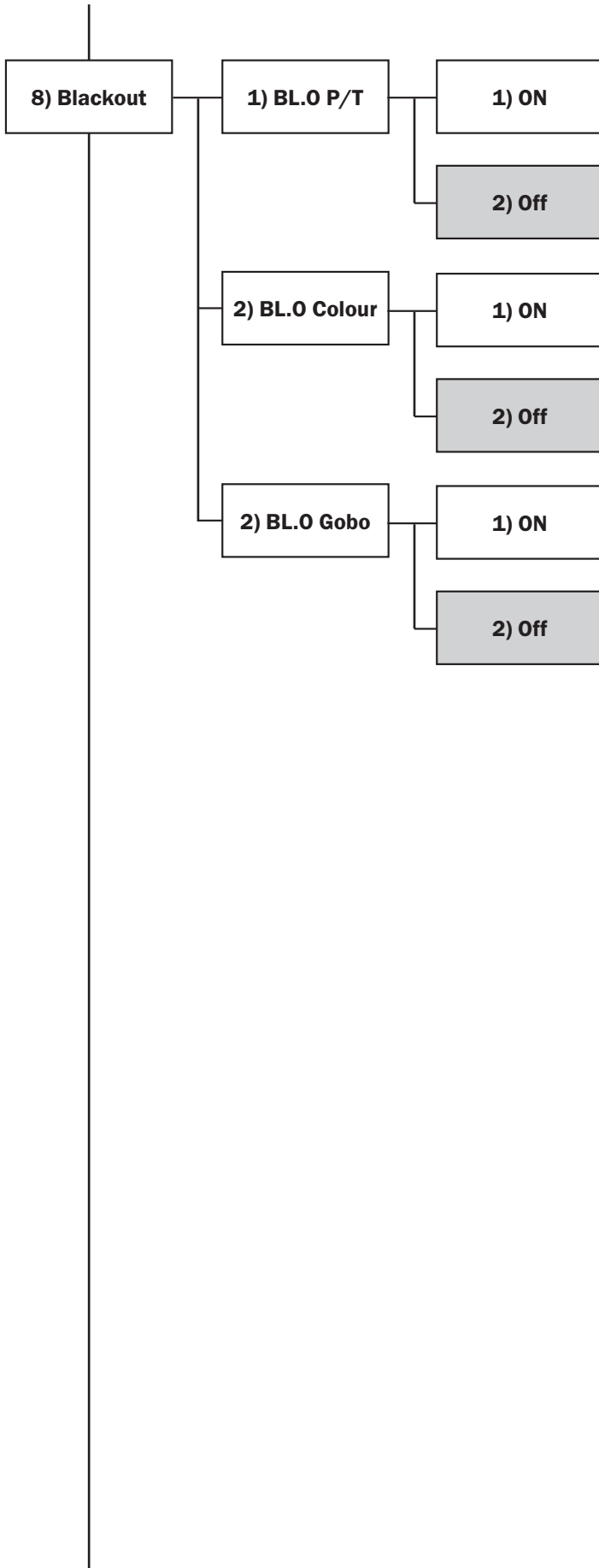
Blackout whilst pan/tilt:

Sets whether the fixture blacks out whilst panning/tilting.

To access the blackout whilst pan/tilt setting, press the "**MENU**" button on to show "**Blackout**" on the LCD display. Press the "**ENTER**" button and use the "**UP**" and "**DOWN**" buttons to select "**BL.O P/T**". Press the "**ENTER**" button and use the "**UP**" and "**DOWN**" buttons to select between "**ON**" and "**Off**". 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 "**Blackout**" on the LCD display. Press the "**ENTER**" button and use the "**UP**" and "**DOWN**" buttons to select "**BL.O Colour**". Press the "**ENTER**" button and use the "**UP**" and "**DOWN**" buttons to select between "**ON**" and "**Off**". 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 "**Blackout**" on the LCD display. Press the "**ENTER**" button and use the "**UP**" and "**DOWN**" buttons to select "**BL.O Gobo**". Press the "**ENTER**" button and use the "**UP**" and "**DOWN**" buttons to select between "**ON**" and "**Off**". Press the "**ENTER**" button to confirm the setting.

```
┌───────────┐   ┌─────────────┐   ┌──────────────┐
│ 9) Display │──┤ 1) Backlight │──┤ 1) Off       │
└───────────┘   └─────────────┘   └──────────────┘
                                  ┌──────────────┐
                                  │ 2) On        │
                                  └──────────────┘
                ┌─────────────┐   ┌──────────────┐
                │ 2) Display  │──┤ 1) ON        │
                │ Inverse     │   └──────────────┘
                └─────────────┘   ┌──────────────┐
                                  │ 2) Off       │
                                  └──────────────┘
```
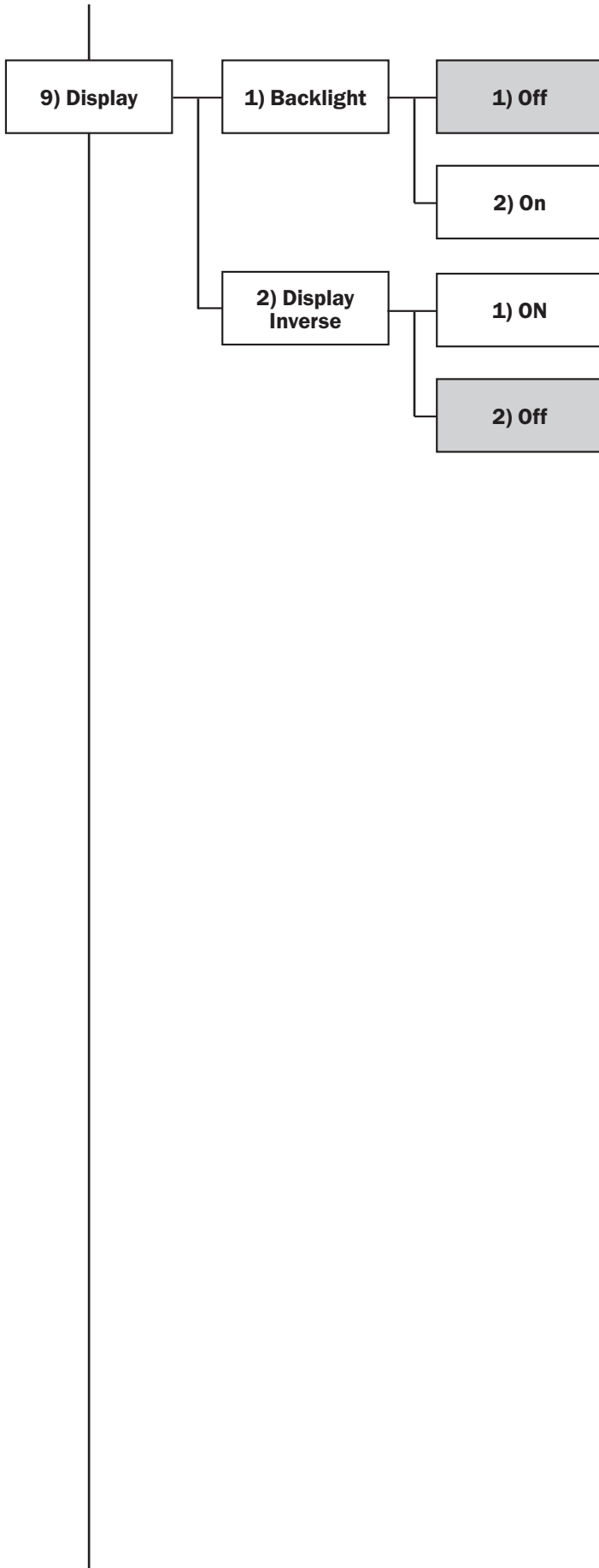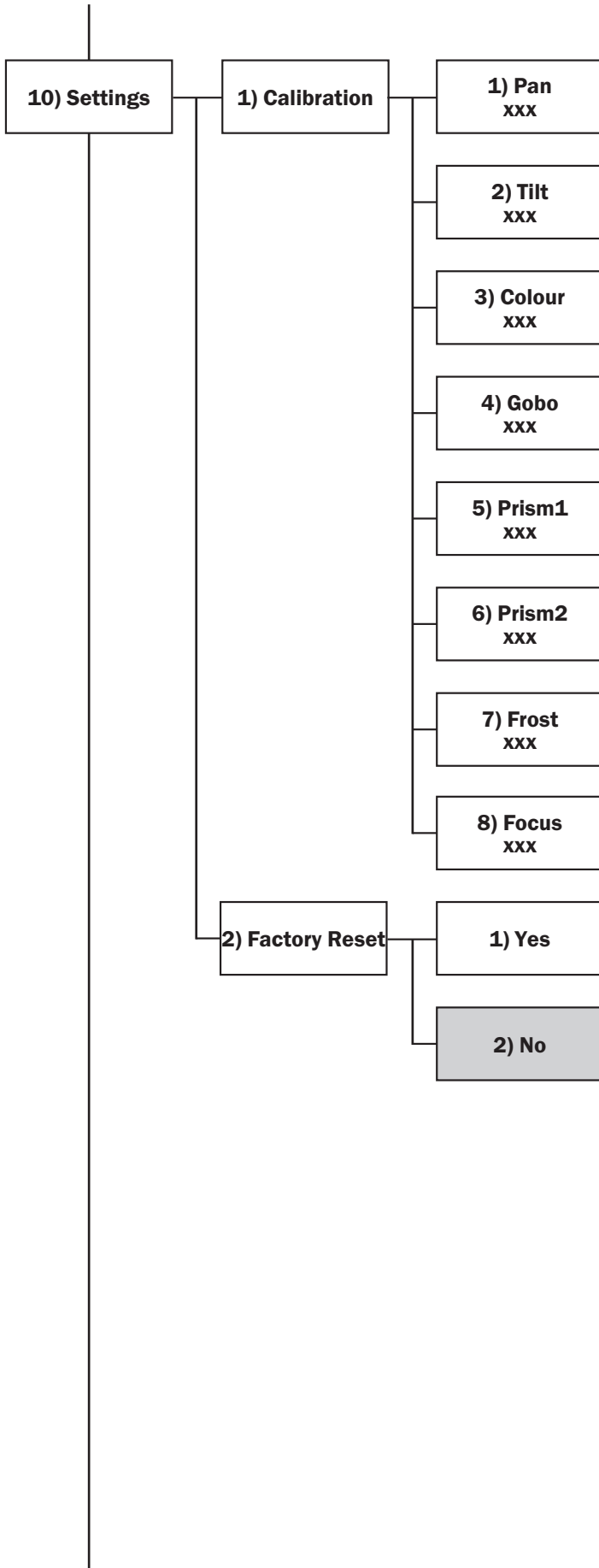
<u>Display backlight:</u>

Sets the display backlight.

To access the display backlight setting, press the "**MENU**" button on to show "**Display**" on the LCD display. Press the "**ENTER**" button and use the "**UP**" and "**DOWN**" buttons to select "**Backlight**". 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.

<u>Display inverse:</u>

To access the display inverse setting, press the "**MENU**" button on to show "**Display**" on the LCD display. Press the "**ENTER**" button and use the "**UP**" and "**DOWN**" buttons to select "**Display Inverse**".Press the "**ENTER**" button and use the "**UP**" and "**DOWN**" buttons to select between "**ON**" and "**Off**". Press the "**ENTER**" button to confirm the setting.

```
10) Settings ─── 1) Calibration ─┬─ 1) Pan
                                  │   xxx
                                  ├─ 2) Tilt
                                  │   xxx
                                  ├─ 3) Colour
                                  │   xxx
                                  ├─ 4) Gobo
                                  │   xxx
                                  ├─ 5) Prism1
                                  │   xxx
                                  ├─ 6) Prism2
                                  │   xxx
                                  ├─ 7) Frost
                                  │   xxx
                                  └─ 8) Focus
                                      xxx

             ─── 2) Factory Reset ─┬─ 1) Yes
                                   └─ 2) No
```

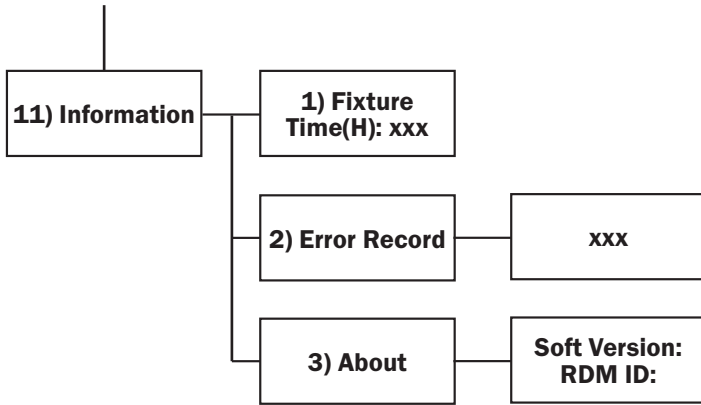## Calibration:

Calibration settings for the fixture.

To access the units calibration menu press the "**MENU**" button once to display "**Settings**" on the LCD display. Press the "**ENTER**" button and use the "**UP**" and "**DOWN**" buttons to select "**Calibration**". 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.

Please note: Calibration settings are set when the fixture is manufactured. This can be changed manually for home position adjustment. Performing a factory reset will not change these settings.

Factory Reset:

Resets all the fixtures factory settings.

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

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```
                    ┌─────────────────┐
┌──────────────┐    │ 1) Fixture      │
│11) Information│────│ Time(H): xxx    │
└──────────────┘    └─────────────────┘

                    ┌──────────────┐    ┌──────────┐
                    │2) Error Record│────│   xxx    │
                    └──────────────┘    └──────────┘

                    ┌──────────────┐    ┌──────────────┐
                    │  3) About    │────│ Soft Version:│
                    └──────────────┘    │ RDM ID:      │
                                        └──────────────┘
```

Fixture Time:

Displays the fixtures total run time.

To display the fixtures total run time, press the "**MENU**" button once to display "**Information**" on the LCD display. Press the "**ENTER**" button and use the "**UP**" and "**DOWN**" buttons to show "**Fixture Time(H)**" on the LCD display. The unit will now display the fixtures run time.

Error Log:

Displays the fixtures error log.

To display the fixtures error log, press the "**MENU**" button once to display "**Information**" on the LCD display. Press the "**ENTER**" button and use the "**UP**" and "**DOWN**" buttons to show "**Error Record**" on the LCD display. Press the "**ENTER**" button. The unit will now display the fixtures run time.

Fixture Information:

Displays the fixtures version and RDM ID.

To display the fixture information, press the "**MENU**" button once to display "**Information**" on the LCD display. Press the "**ENTER**" button and use the "**UP**" and "**DOWN**" buttons to show "**About**" on the LCD display. Press the "**ENTER**" button. The unit will now display the fixtures software version and RDM ID.

12 channel mode:

Channel	Value	Function
CH1	000-255	Pan adjustment 0-540°
CH2	000-255	Tilt adjustment 0-270°
CH3	000-255	Pan/tilt speed (fast-slow)
CH4	000-004	Open
	005-008	Open + Red
	009-012	Red
	013-017	Red + Orange
	018-021	Orange
	022-025	Orange + Cyan
	026-029	Cyan
	030-034	Cyan + Green
	035-038	Green
	039-042	Green + Lime Green
	043-046	Lime Green
	047-051	Lime Green + Lavender
	052-055	Lavender
	056-059	Lavender + Pink
	060-063	Pink
	064-068	Pink + Yellow
	069-072	Yellow
	073-076	Yellow + Magenta
	077-081	Magenta
	082-085	Magenta + Blue
	086-089	Blue
	090-093	Blue + CTO 260
	094-098	CTO 260
	099-102	CTO 260 + CTO 190
	103-106	CTO 190
	107-110	CTO 190 + CTB 8000
	111-115	CTB 8000
	116-119	CTB 8000 + Dark Blue
	120-123	Dark Blue
	124-127	Dark Blue + Open
	128-255	Colour Wheel Rotation (slow-fast)

Channel	Value	Function
CH5	000-003	Blackout
	004-103	Strobe (slow-fast)
	104-107	Open
	108-207	Strobe Pulse (slow-fast)
	208-212	Open
	213-251	Random Strobe (slow-fast)
	252-255	Open
CH6	000-255	Master dimmer (0-100%)

12 channel mode cont.:

Channel	Value	Function
	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
	028-031	Static gobo 7
	032-035	Static gobo 8
	036-039	Static gobo 9
	040-043	Static gobo 10
	044-047	Static gobo 11
	048-051	Static gobo 12
	052-055	Static gobo 13
	056-059	Static gobo 14
	060-063	Static gobo 15
	064-067	Static gobo 16
	068-071	Static gobo 17
CH7	072-113	Gobo wheel scroll CW (fast-slow)
	114-117	Rotation Stop
	118-159	Gobo wheel scroll CCW (slow-fast)
	160-166	Gobo 2 shake (slow-fast)
	167-172	Gobo 3 shake (slow-fast)
	173-179	Gobo 4 shake (slow-fast)
	180-185	Gobo 5 shake (slow-fast)
	186-191	Gobo 6 shake (slow-fast)
	192-198	Gobo 7 shake (slow-fast)
	199-204	Gobo 8 shake (slow-fast)
	205-211	Gobo 9 shake (slow-fast)
	212-217	Gobo 10 shake (slow-fast)
	218-223	Gobo 11 shake (slow-fast)
	224-230	Gobo 12 shake (slow-fast)
	231-236	Gobo 13 shake (slow-fast)
	237-243	Gobo 14 shake (slow-fast)
	244-249	Gobo 16 shake (slow-fast)
	250-255	Gobo 17 shake (slow-fast)

Channel	Value	Function
CH8	000-063	No function
	064-127	8 facet circular prism
	128-191	16 facet circular prism
	192-255	8 facet circular prism + 16 facet circular prism
CH9	000-127	Prism location
	128-191	Prism rotation CCW (fast-slow)
	192-255	Prism rotation CW (slow-fast)
CH10	000-255	Frost
CH11	000-255	Focus
CH12	000-025	No function
	026-076	Effects Motor Reset
	077-127	Pan/Tilt Motor Reset
	128-255	All Motor Reset

18 channel mode:

Channel	Value	Function
CH1	000-255	Pan adjustment 0-540°
CH2	000-255	Pan fine adjustment
CH3	000-255	Tilt adjustment 0-270°
CH4	000-255	Tilt fine adjustment
CH5	000-255	Pan/tilt speed (fast-slow)
CH6	000-004	Open
	005-008	Open + Red
	009-012	Red
	013-017	Red + Orange
	018-021	Orange
	022-025	Orange + Cyan
	026-029	Cyan
	030-034	Cyan + Green
	035-038	Green
	039-042	Green + Lime Green
	043-046	Lime Green
	047-051	Lime Green + Lavender
	052-055	Lavender
	056-059	Lavender + Pink
	060-063	Pink
	064-068	Pink + Yellow
	069-072	Yellow
	073-076	Yellow + Magenta
	077-081	Magenta
	082-085	Magenta + Blue
	086-089	Blue
	090-093	Blue + CTO 260
	094-098	CTO 260
	099-102	CTO 260 + CTO 190
	103-106	CTO 190
	107-110	CTO 190 + CTB 8000
	111-115	CTB 8000
	116-119	CTB 8000 + Dark Blue
	120-123	Dark Blue
	124-127	Dark Blue + Open
	128-255	Colour Wheel Rotation (slow-fast)

Channel	Value	Function
CH7	000-003	Blackout
	004-103	Strobe (slow-fast)
	104-107	Open
	108-207	Strobe Pulse (slow-fast)
	208-212	Open
	213-251	Random Strobe (slow-fast)
	252-255	Open
CH8	000-255	Master dimmer (0-100%)
CH9	000-255	Master dimmer fine adjustment

18 channel mode cont.:

Channel	Value	Function
CH10	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
	028-031	Static gobo 7
	032-035	Static gobo 8
	036-039	Static gobo 9
	040-043	Static gobo 10
	044-047	Static gobo 11
	048-051	Static gobo 12
	052-055	Static gobo 13
	056-059	Static gobo 14
	060-063	Static gobo 15
	064-067	Static gobo 16
	068-071	Static gobo 17
	072-113	Gobo wheel scroll CW (fast-slow)
	114-117	Rotation Stop
	118-159	Gobo wheel scroll CCW (slow-fast)
	160-166	Gobo 2 shake (slow-fast)
	167-172	Gobo 3 shake (slow-fast)
	173-179	Gobo 4 shake (slow-fast)
	180-185	Gobo 5 shake (slow-fast)
	186-191	Gobo 6 shake (slow-fast)
	192-198	Gobo 7 shake (slow-fast)
	199-204	Gobo 8 shake (slow-fast)
	205-211	Gobo 9 shake (slow-fast)
	212-217	Gobo 10 shake (slow-fast)
	218-223	Gobo 11 shake (slow-fast)
	224-230	Gobo 12 shake (slow-fast)
	231-236	Gobo 13 shake (slow-fast)
	237-243	Gobo 14 shake (slow-fast)
	244-249	Gobo 16 shake (slow-fast)
	250-255	Gobo 17 shake (slow-fast)

Channel	Value	Function
CH11	000-127	No function
	128-255	8 facet circular prism
CH12	000-127	Prism location
	128-191	Prism rotation CCW (fast-slow)
	192-255	Prism rotation CW (slow-fast)
CH13	000-127	No function
	128-255	16 facet circular prism
CH14	000-127	Prism location
	128-191	Prism rotation CCW (fast-slow)
	192-255	Prism rotation CW (slow-fast)
CH15	000-255	Frost
CH16	000-255	Focus
CH17	000-055	No function
	056-105	Square Law
	106-155	Linear
	156-205	Inverse Square Law
	206-255	S-Curve
CH18	000-025	No function
	026-076	Effects Motor Reset
	077-127	Pan/Tilt Motor Reset
	128-255	All Motor Reset

Static gobos:

Open	Gobo 1	Gobo 2	Gobo 3
Gobo 4	Gobo 5	Gobo 6	Gobo 7
Gobo 8	Gobo 9	Gobo 10	Gobo 11
Gobo 12	Gobo 13	Gobo 14	Gobo 15
Gobo 16	Gobo 17		
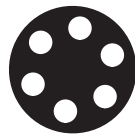
Setting the DMX address:

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
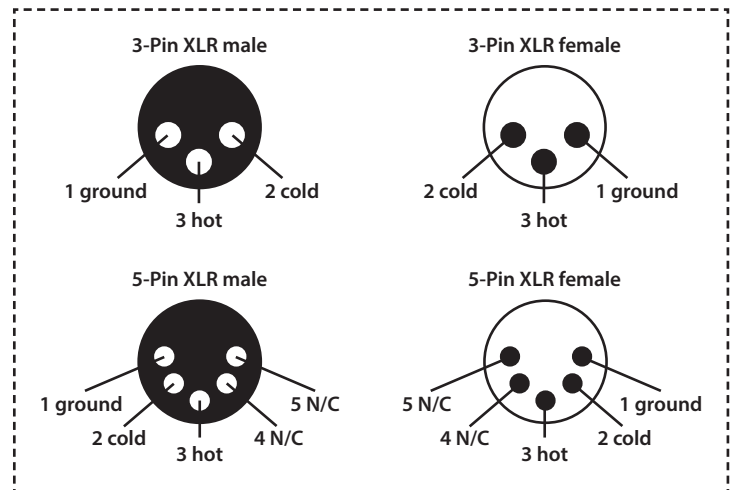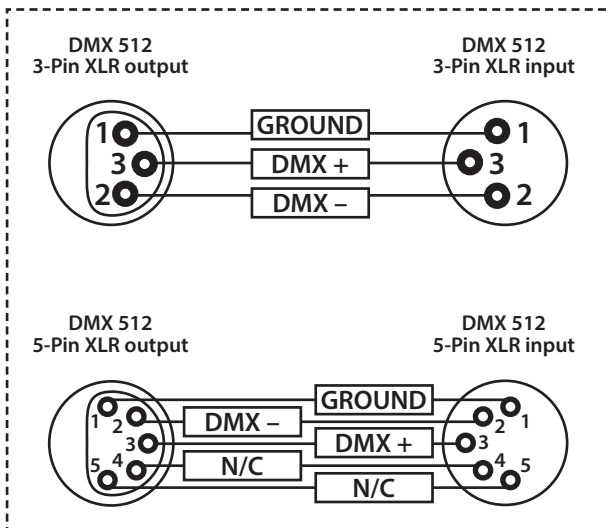
Line termination:

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.
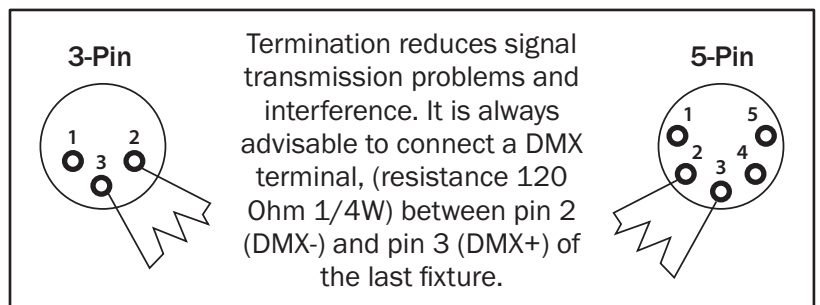
5-pin XLR DMX connectors:

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.

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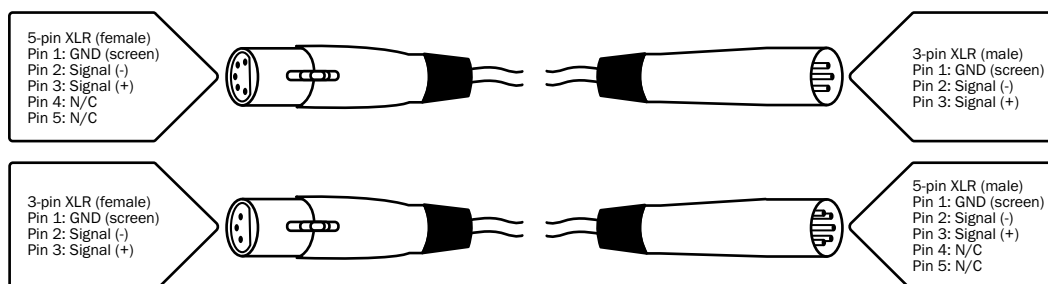
Power linking:

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 6 fixtures @ 240V or 3 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 Kudos 700 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.
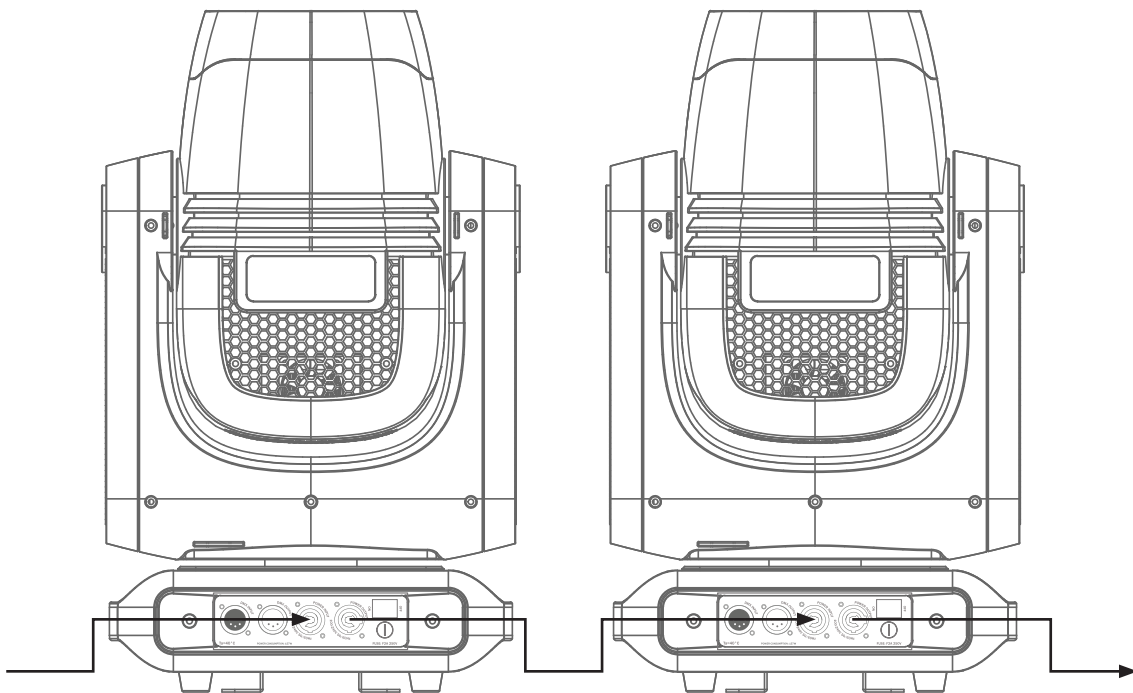
Optional accessories

Please contact your local retailer to purchase these accessories.
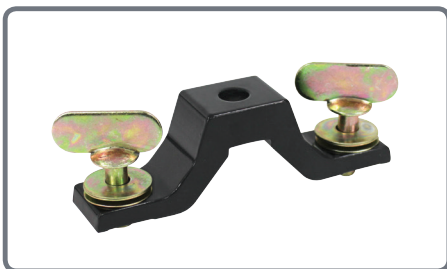
Replacement Omega Clamp
Order code: CLAM21

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.

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