# elumen8 

## Kudos 250ZS <br> User Manual



Order codes: ELUM422

## 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 Pro Light 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.
- 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.

## elumen8

## Product overview \& technical specifications

## Kudos 250ZS

The eLumen8 Kudos 250ZS utilises twelve 15W quad-colour (RGBW) LEDs combined with a motorised zoom $\left(5^{\circ}-60^{\circ}\right)$ offering superior colour mixing, producing vibrant colours and hues outputting in a perfectly even wash. This dynamic yet compact moving head is not only loaded with a variety of different programming options, it also comprises a vivid RGB backlight creating stunning 'eye candy' effects. Ideal for both rental and installation, the Kudos 250ZS boasts all the fundamental features you would expect from eLumen8 including: 4 dimming curves, $0-100 \%$ dimming with variable strobe, 3-Pin XLR, 5-Pin XLR and PowerCON input/outputs, plus two quick release omega clamps. The jog wheel menu with LCD display, and selectable 16 bit pan and tilt with auto correction, make this a truly 'event ready' fixture.

- 2 year warranty
- $12 \times 15 \mathrm{~W}$ Osram Ostar™ quad-colour LEDs (RGBW)
- RGB backlight for dual colour effects
- Adjustable beam angle: $5^{\circ}$ - $60^{\circ}$
- $5^{\circ}$ - 22,711 Lux @ 2m, $60^{\circ}$ - 2,035 Lux @ $2 m$
- 4 kHz refresh rate
- Motorised zoom
- DMX channels: 8/10/16 or 26 selectable
- Auto, sound active, manual control and master/slave modes
- Pan/tilt auto correction
- $360^{\circ}$ continuous pan and tilt
- 0-100\% dimming and variable strobe
- 4 dimming curves: Linear, square law, inverse square law and S-curve
- Supplied with quick release omega clamps
- Jog wheel menu with 2" LCD display
- PowerCON input/output
- 5-Pin XLR input/output
- 3-Pin XLR input/output
- Fan cooled

| Specifications | Kudos 250ZS |
| :--- | :--- |
| Power consumption | 225 W |
| Fuse | T4A 250V |
| Power supply | $100 \sim 240 \mathrm{~V}, 50 / 60 \mathrm{~Hz}$ |
| Dimensions | $400 \times 300 \times 195 \mathrm{~mm}$ |
| Weight | 8.3 kg |
| Order code | ELUM422 |



## elumen8



01 - LCD display
02 - Jog wheel
03 - LED mode indicators
04-3-Pin DMX input
05-3-Pin DMX output

06-5-Pin DMX input
07-5-Pin DMX output
08 - PowerCON input
09 - PowerCON output
10 - Fuse T4A 250V

11 - Earth point
12-Head fan
13 - Omega bracket plate
14 - Carry handles

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

## 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 it will show "Wait..." followed by "Elumen8 Kudos 250ZS".
The fixture will then return to its home screen.
To access the main menu turn the jog wheel clockwise or anti-clockwise until the menu required is highlighted. Pressing the jog wheel on one of these options allows you to access the sub menu where you can turn the jog wheel clockwise or anti-clockwise to select the option/value required.
Once the option/value has been selected press the jog wheel once more to confirm the setting.

There are 4 LED indicators on the front panel of the fixture:
DMX - This LED indicator will flash when the unit is receiving a DMX signal.
MASTER - This LED indicator will illuminate when in Master mode.
SLAVE - This LED indicator will flash when in Slave mode.
SOUND - This LED indicator will flash when in Sound mode.


| Main Menu | Sub Menu Options/Values (Default Settings in BOLD) |  | Description |
| :---: | :---: | :---: | :---: |
| 1: DMX Address | 001-512 |  | DMX Address Setting |
| 2: Channel Mode | 1: 8Ch (8 channel mode) |  |  |
|  | 2: 10Ch (10 channel mode) |  | Channel Setting |
|  | 3: 16Ch (16 channel mode) |  |  |
|  | 4: 26Ch (26 channel mode) |  |  |
| 3: Dimmer Curve | Square Law |  |  |
|  | Linear |  | mming Curve Setting |
|  | S-Curve |  | ( |
|  | InvSquare Law |  |  |
| 4: Show Mode | Forward Facing Show |  | Show Modes |
|  | Show Mode 01 |  |  |
|  | Show Mode 02 |  |  |
|  | Show Mode 03 |  |  |
|  | Show Mode 04 |  |  |
|  | Show Mode 05 |  |  |
|  | Show Mode 06 |  |  |
|  | Show Mode 07 |  |  |
|  | Show Mode 08 |  |  |
| 5: Manual Control | 1: Pan | 000-255 | Manual Control Mode |
|  | 2: Tilt | 000-255 |  |
|  | 3: Zoom | 000-255 |  |
|  | 4: Red | 000-255 |  |
|  | 5: RedA | 000-255 |  |
|  | 6: Green | 000-255 |  |
|  | 7: GreenA | 000-255 |  |
|  | 8: Blue | 000-255 |  |
|  | 9: BlueA | 000-255 |  |
|  | 10: White | 000-255 |  |
|  | 11: Strobe | 000-255 |  |
|  | Exit |  |  |
| 6: Slave Mode | Slave1 |  | Slave Setting |
|  | Slave2 |  |  |
| 7: Sound Mode | On |  | Sound Mode Settings |
|  | Off |  |  |
|  | Sens | 000-255 |  |
|  | Exit |  |  |
| 8: Pan Invert | No |  | Pan Invert Setting |
|  | Yes |  |  |
| 9: Tilt Invert | No |  | Tilt Invert Setting |
|  | Yes |  |  |


| Main Menu |  |  | Description |
| :---: | :---: | :---: | :---: |
| 10: DMX Fail | Blackout |  | DMX Fail Setting |
|  | Hold |  |  |
|  | Show mode |  |  |
|  | Manual |  |  |
| 11: DisplayRotate | Auto rotate |  | Display Rotate Setting |
|  | Normal |  |  |
|  | Inverted |  |  |
|  | Exit |  |  |
| 12: Back Light | On |  | Back Light Setting |
|  | Off |  |  |
|  | Adjust |  |  |
|  | Exit |  |  |
| 13: Version | Version X.XX |  | Software Version |
| 14: Factory Sets | Yes |  | Factory Settings |
|  | No |  |  |
| 15: Reset | Yes |  | Motor Reset |
|  | No |  |  |
| 16: Calibrations | Pan | 000-255 | Calibration Setting |
|  | Tilt | 000-255 |  |
|  | Default |  |  |
|  | Exit |  |  |
| 17: Auto Test | Test... |  | Auto Test |
|  | Exit |  |  |
| Exit |  |  | Exit Menu |

## 8 channel mode:

| Channel | Value | Function |
| :--- | :--- | :--- |
| CH1 | $000-127$ | Pan adjustment 0-540 ${ }^{\circ}$ |
|  | $128-191$ | Infinite pan clockwise (fast-slow) |
|  | $192-255$ | Infinite pan anticlockwise (slow-fast) |
| CH2 | $000-127$ | Tilt adjustment 0-270 ${ }^{\circ}$ |
|  | $128-191$ | Infinite tilt backwards (fast-slow) |
|  | $192-255$ | Infinite tilt forwards (slow-fast) |
| CH3 | $000-255$ | Zoom (5º-60 ${ }^{\circ}$ ) |
| CH4 | $000-255$ | Red dimmer + red backlight dimmer (0-100\%) |
| CH5 | $000-255$ | Green dimmer + green backlight dimmer (0-100\%) |
| CH6 | $000-255$ | Blue dimmer + blue backlight dimmer (0-100\%) |
| CH7 | $000-255$ | White dimmer (0-100\%) |
| CH8 | $000-255$ | Master dimmer (0-100\%) |

Operating instructions

## 10 channel mode:

| Channel | Value | Function |  | Channel | Value | Function |  |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
| CH1 | 000-127 | Pan adjustment 0-540 ${ }^{\circ}$ |  | CH5 | 210-216 | Mist Blue | colour macros |
|  | 128-191 | Infinite pan clockwise (fast-slow) |  |  | 217-223 | Pale Yellow |  |
|  | 192-255 | Infinite pan anticlockwise (slow-fast) |  |  | 224-230 | Cornflower |  |
| CH2 | 000-127 | Tilt adjustment 0-270 ${ }^{\circ}$ |  |  | 231-255 | White (full on) |  |
|  | 128-191 | Infinite tilt backwards (fast-slow) |  | CH6 | 000-007 | No function | Backlight colour macros |
|  | 192-255 | Infinite tilt forwards (slow-fast) |  |  | 008-019 | Red |  |
| CH3 | 000-255 | Master dimmer (0-100\%) |  |  | 020-039 | Yellow |  |
| CH 4 | 000-010 | No function |  |  | 040-059 | Lime Green |  |
|  | 011-128 | Random strobe (slow-fast) |  |  | 060-079 | Green |  |
|  | 129-255 | Linear strobe (slow-fast) |  |  | 080-099 | Turquoise |  |
| CH5 | 000-007 | No function |  |  | 100-119 | Light Blue |  |
|  | 008-013 | Primary Red |  |  | 120-139 | Blue |  |
|  | 014-020 | Scarlet |  |  | 140-159 | Lavender |  |
|  | 021-027 | Pink |  |  | 160-179 | Violet |  |
|  | 028-034 | Dark Amber |  |  | 180-199 | Pink |  |
|  | 035-041 | Burnt Yellow |  |  | 200-219 | Magenta |  |
|  | 042-048 | Yellow |  |  | 220-239 | Hot Pink |  |
|  | 049-055 | Pastel Yellow |  |  | 240-255 | White (full on) |  |
|  | 056-062 | Soft Green |  | CH7 | 000-015 | No function |  |
|  | 063-069 | Jade |  |  | 016-031 | Program 1 |  |
|  | 070-076 | Dark Green |  |  | 032-047 | Program 2 |  |
|  | 077-083 |   <br> Primary Green  <br> Light Blue  <br> Sky Blue  <br> Meam  <br> Meam  <br> colour  <br> macros  |  |  | 048-063 | Program 3 |  |
|  | 084-090 |  |  | 064-079 | Program 4 |  |  |
|  | 091-097 |  |  | 080-095 | Program 5 |  |  |
|  | 098-104 |  |  | 096-111 | Program 6 |  |  |
|  | 105-111 |  |  | 112-127 | Program 7 |  |  |
|  | 112-118 | Dark Steel Blue |  |  | 128-143 | Program 8 |  |
|  | 119-125 | Double New Colour Blue |  |  | 144-159 | Program 9 |  |
|  | 126-132 | Regal Blue |  |  | 160-175 | Program 10 |  |
|  | 133-139 | Winter Blue |  |  | 176-191 | Program 11 |  |
|  | 140-146 | Tokyo Blue |  |  | 192-207 | Program 12 |  |
|  | 147-153 | Special Medium Lavender |  |  | 208-223 | Program 13 |  |
|  | 154-160 | Provence |  |  | 224-239 | Program 14 |  |
|  | 161-167 | Magical Magenta |  |  | 240-255 | Program 15 |  |
|  | 168-174 | Bright Pink |  |  | CH8 | 000-255 | Program speed (slow-fast) |  |
|  | 175-181 | Medium Purple |  |  | CH9 | 000-255 | Zoom ( $5^{\circ}-60^{\circ}$ ) |  |
|  | 182-188 | Follies Pink |  |  | CH10 | 000-007 | No function |  |
|  | 189-195 | Bright Rose |  |  |  | 008-027 | Show 1 |  |
|  | 196-202 | Magenta |  | 028-047 |  | Show 2 |  |
|  | 203-209 | Dark Magenta |  | 048-067 |  | Show 3 |  |

## 10 channel mode (cont.):

| Channel | Value | Function |
| :--- | :--- | :--- |
| CH10 <br> (cont.) | $068-087$ | Show 4 |
|  | $088-107$ | Show 5 |
|  | $108-127$ | Show 6 |
|  | $128-147$ | Show 7 |
|  | $148-167$ | Show 8 |
|  | $168-187$ | Forward Facing Show |
|  | $188-220$ | No function |
|  | $221-240$ | Reset motors (hold for 5 seconds) |
|  | $241-255$ | No function |

## 16 channel mode:

| Channel | Value | Function |
| :---: | :---: | :---: |
| CH1 | 000-255 | Pan adjustment 0-540 ${ }^{\circ}$ |
| CH2 | 000-255 | Pan fine |
| CH3 | 000-255 | Tilt adjustment 0-270 ${ }^{\circ}$ |
| CH4 | 000-255 | Tilt fine |
| CH5 | 000-255 | Pan/tilt speed (fast-slow) |
| CH6 | 000-015 | No function |
|  | 016-135 | Infinite pan clockwise (fast-slow) |
|  | 136-255 | Infinite pan anticlockwise (slow-fast) |
| CH7 | 000-015 | No function |
|  | 016-135 | Infinite tilt backwards (fast-slow) |
|  | 136-255 | Infinite tilt forwards (slow-fast) |
| CH8 | 000-255 | Master dimmer (0-100\%) |
| CH9 | 000-010 | No function |
|  | 011-255 | Linear strobe (slow-fast) |
| CH10 | 000-010 | No function |
|  | 011-255 | Random strobe (slow-fast) |
| CH11 | 000-255 | Zoom ( $5^{\circ}-60^{\circ}$ ) |
| CH12 | 000-007 | No function |
|  | 008-027 | Show 1 |
|  | 028-047 | Show 2 |
|  | 048-067 | Show 3 |
|  | 068-087 | Show 4 |
|  | 088-107 | Show 5 |
|  | 108-127 | Show 6 |
|  | 128-147 | Show 7 |
|  | 148-167 | Show 8 |
|  | 168-187 | Forward Facing Show |
|  | 188-220 | No function |
|  | 221-240 | Reset motors (hold for 5 seconds) |
|  | 241-255 | No function |
| CH13 | 000-255 | Red dimmer + red backlight dimmer (0-100\%) |
| CH14 | 000-255 | Green dimmer + green backlight dimmer (0-100\%) |
| CH15 | 000-255 | Blue dimmer + blue backlight dimmer (0-100\%) |
| CH16 | 000-255 | White dimmer (0-100\%) |

## 26 channel mode:

| Channel | Value | Function |  |
| :---: | :---: | :---: | :---: |
| CH1 | 000-255 | Pan adjustment 0-540 ${ }^{\circ}$ |  |
| CH2 | 000-255 | Pan fine |  |
| CH3 | 000-255 | Tilt adjustment 0-270 ${ }^{\circ}$ |  |
| CH 4 | 000-255 | Tilt fine |  |
| CH5 | 000-255 | Pan/tilt speed (fast-slow) |  |
| CH6 | 000-015 | No function |  |
|  | 016-135 | Infinite pan clockwise (fast-slow) |  |
|  | 136-255 | Infinite pan anticlockwise (slow-fast) |  |
| CH7 | 000-015 | No function |  |
|  | 016-135 | Infinite tilt backwards (fast-slow) |  |
|  | 136-255 | Infinite tilt forwards (slow-fast) |  |
| CH8 | 000-255 | Master dimmer (0-100\%) |  |
| CH9 | 000-010 | No function |  |
|  | 011-255 | Linear strobe (slow-fast) |  |
| CH10 | 000-010 | No function |  |
|  | 011-255 | Random strobe (slow-fast) |  |
| CH11 | 000-255 | Backlight master dimmer (0-100\%) |  |
| CH12 | 000-010 | No function |  |
|  | 011-255 | Backlight linear strobe (slow-fast) |  |
| CH13 | 000-010 | No function |  |
|  | 011-255 | Backlight random strobe (slow-fast) |  |
| CH14 | 000-007 | No function | Beam colour macros |
|  | 008-013 | Primary Red |  |
|  | 014-020 | Scarlet |  |
|  | 021-027 | Pink |  |
|  | 028-034 | Dark Amber |  |
|  | 035-041 | Burnt Yellow |  |
|  | 042-048 | Yellow |  |
|  | 049-055 | Pastel Yellow |  |
|  | 056-062 | Soft Green |  |
|  | 063-069 | Jade |  |
|  | 070-076 | Dark Green |  |
|  | 077-083 | Primary Green |  |
|  | 084-090 | Light Blue |  |
|  | 091-097 | Sky Blue |  |
|  | 098-104 | Medium Blue |  |
|  | 105-111 | True Blue |  |
|  | 112-118 | Dark Steel Blue |  |
|  | 119-125 | Double New Colour Blue |  |


| Channel | Value | Function |  |
| :---: | :---: | :---: | :---: |
| CH14 | 126-132 | Regal Blue | Beam colour macros |
|  | 133-139 | Winter Blue |  |
|  | 140-146 | Tokyo Blue |  |
|  | 147-153 | Special Medium Lavender |  |
|  | 154-160 | Provence |  |
|  | 161-167 | Magical Magenta |  |
|  | 168-174 | Bright Pink |  |
|  | 175-181 | Medium Purple |  |
|  | 182-188 | Follies Pink |  |
|  | 189-195 | Bright Rose |  |
|  | 196-202 | Magenta |  |
|  | 203-209 | Dark Magenta |  |
|  | 210-216 | Mist Blue |  |
|  | 217-223 | Pale Yellow |  |
|  | 224-230 | Cornflower |  |
|  | 231-255 | White (full on) |  |
| CH15 | 000-007 | No function | Backlight colour macros |
|  | 008-019 | Red |  |
|  | 020-039 | Yellow |  |
|  | 040-059 | Lime Green |  |
|  | 060-079 | Green |  |
|  | 080-099 | Turquoise |  |
|  | 100-119 | Light Blue |  |
|  | 120-139 | Blue |  |
|  | 140-159 | Lavender |  |
|  | 160-179 | Violet |  |
|  | 180-199 | Pink |  |
|  | 200-219 | Magenta |  |
|  | 220-239 | Hot Pink |  |
|  | 240-255 | White (full on) |  |
| CH16 | 000-015 | No function |  |
|  | 016-031 | Program 1 |  |
|  | 032-047 | Program 2 |  |
|  | 048-063 | Program 3 |  |
|  | 064-079 | Program 4 |  |
|  | 080-095 | Program 5 |  |
|  | 096-111 | Program 6 |  |
|  | 112-127 | Program 7 |  |
|  | 128-143 | Program 8 |  |

## elumen8

## 26 channel mode (cont.):

| CH16 (cont.) | 144-159 | Program 9 |
| :---: | :---: | :---: |
|  | 160-175 | Program 10 |
|  | 176-191 | Program 11 |
|  | 192-207 | Program 12 |
|  | 208-223 | Program 13 |
|  | 224-239 | Program 14 |
|  | 240-255 | Program 15 |
| CH17 | 000-255 | Program speed (slow-fast) |
| CH18 | 000-255 | Zoom ( $5^{\circ}-60^{\circ}$ ) |
| CH19 | 000-007 | No function |
|  | 008-027 | Show 1 |
|  | 028-047 | Show 2 |
|  | 048-067 | Show 3 |
|  | 068-087 | Show 4 |
|  | 088-107 | Show 5 |
|  | 108-127 | Show 6 |
|  | 128-147 | Show 7 |
|  | 148-167 | Show 8 |
|  | 168-187 | Forward Facing Show |
|  | 188-220 | No function |
|  | 221-240 | Reset motors (hold for 5 seconds) |
|  | 241-255 | No function |
| CH2O | 000-255 | Red backlight dimmer (0-100\%) |
| CH21 | 000-255 | Green backlight dimmer (0-100\%) |
| CH22 | 000-255 | Blue backlight dimmer (0-100\%) |
| CH23 | 000-255 | Red dimmer (0-100\%) |
| CH24 | 000-255 | Green dimmer (0-100\%) |
| CH25 | 000-255 | Blue dimmer (0-100\%) |
| CH26 | 000-255 | White dimmer (0-100\%) |

## elumen8

## Setting the DMX address:

The DMX mode enables the use of a universal DMX controller. Each fixture requires a "start address" from 1-511. 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 and your DMX controller require a standard 3-pin XLR connector for data input/output, see image below.


Further DMX cables can be purchased from all good sound and lighting suppliers or Pro Light Concepts dealers.
Please quote:
CABL10 - 2m
CABL11 - 5m
CABL12-10m

Note: DMX cable must be daisy chained and cannot be split.

## elumen8

## 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.


| XLR Pin Configuration |
| :---: |
| Pin $1=$ Ground |
| Pin $2=$ Negative |
| Pin $3=$ Postive |

## Special note:

## 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


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



# Correct Disposal of this Product <br> (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.

## elumen8

