

EQUINOX

Double Decker

User Manual



Order code: EQLED452

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 sit the equipment on a flat surface as this can block the air intake to cool the LED.
- 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.
- 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: One year 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!

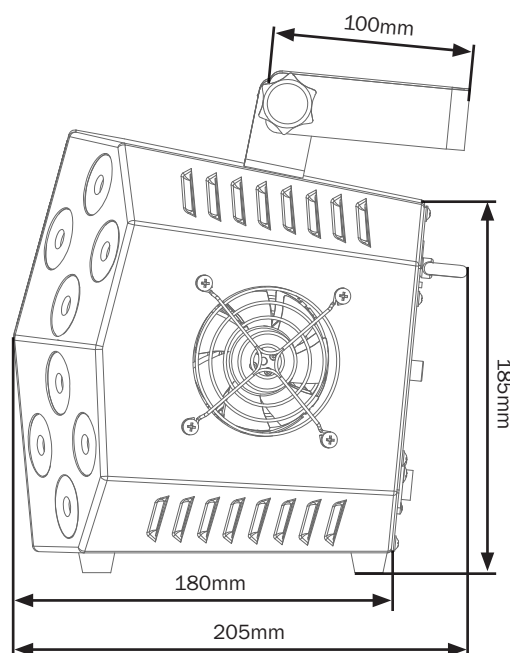
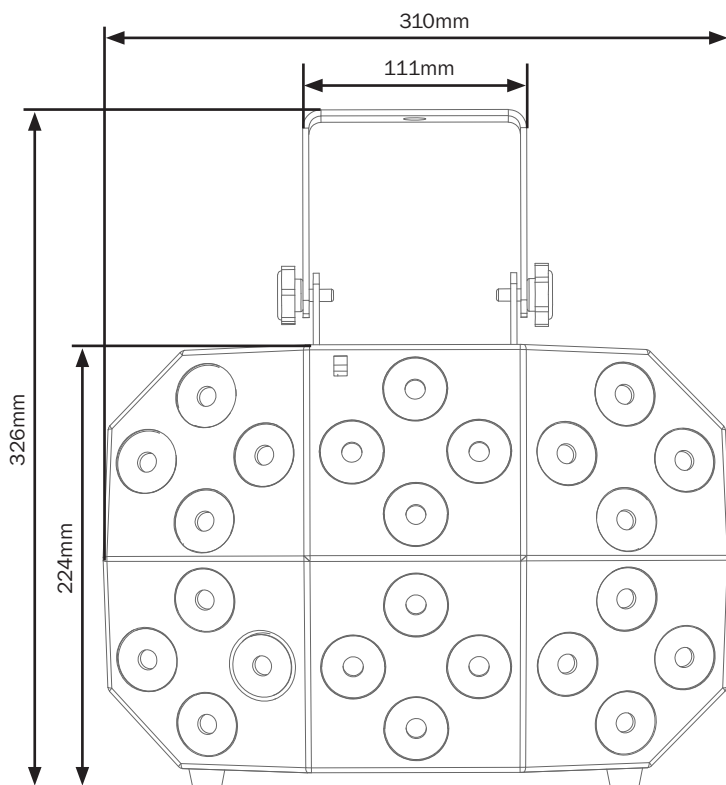
Incorrect installation or use can cause serious damage to people and/or property.

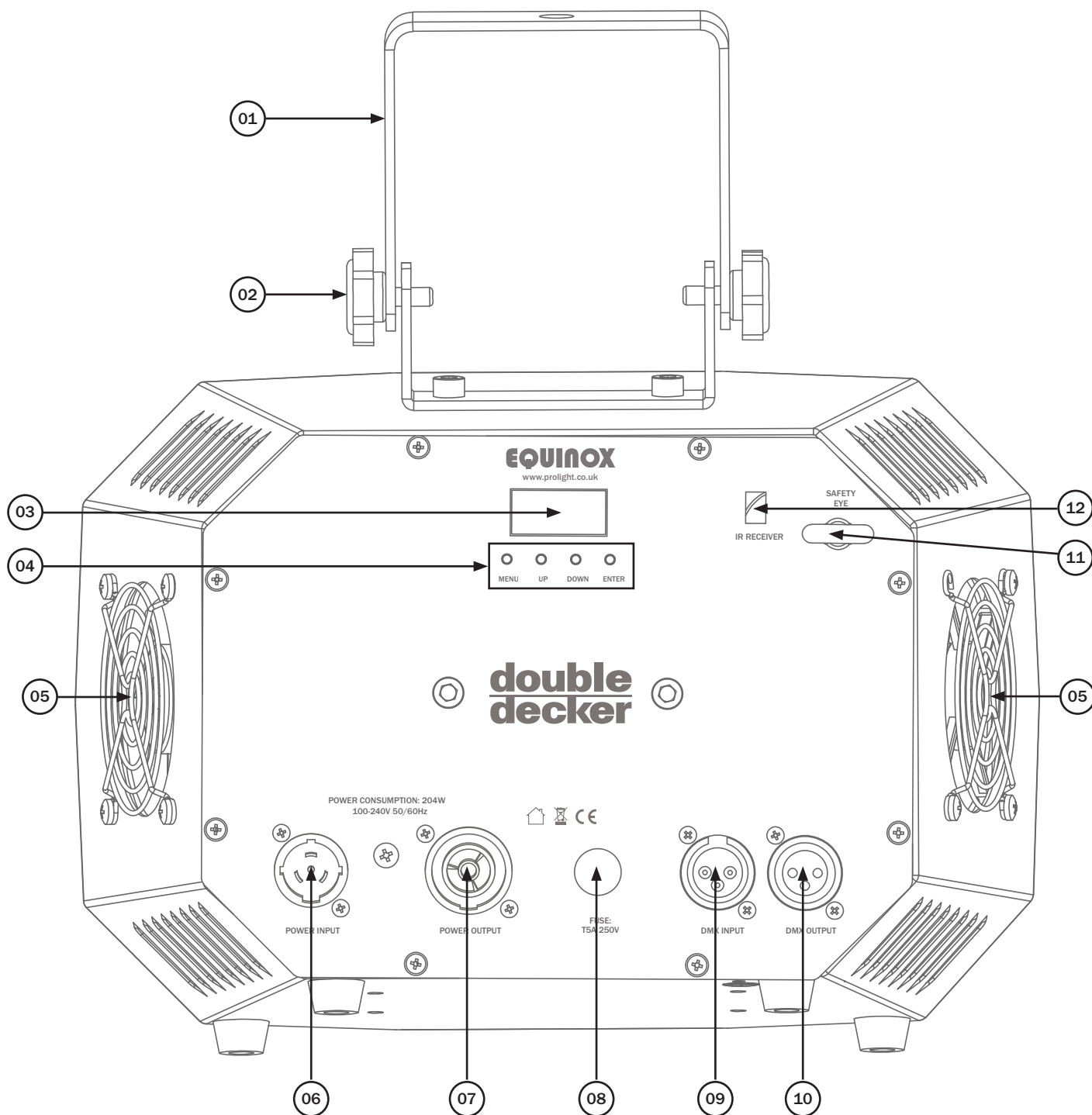
Double Decker

The Double Decker is a super bright and versatile wash effect featuring 24 six-colour LEDs flooding venues in vibrant saturated colours and subtle pastel hues. The unit features 6 zone control perfect for colour chases and eye-candy effects whilst advanced primary and secondary programming synchronisation allows fixtures to mirror each other. Other control options also include auto, sound active, DMX plus a handy IR remote is included.

- 24 x 10W six-colour LEDs (RGBWAUV)
- Beam angle: 40°
- Pixel zone mapping
- Refresh rate: 11.7kHz
- DMX channels: 3/6/10 or 40 selectable
- Auto, sound active and primary/secondary modes
- 0 - 100% dimming
- Variable strobe
- Supplied with mounting bracket
- 4 button menu with LED display
- PowerTwist input/output
- 3-Pin XLR input/output
- Fan cooled
- Supplied with IR remote

Specifications	
Power consumption	204W
Power supply	100~240V, 50/60Hz
Fuse	F5A 250V
Dimensions	326 x 310 x 205mm
Weight	3.6kg
Order code	EQLED452





01 - Hanging bracket
02 - Adjustment knobs
03 - LED display
04 - Function buttons

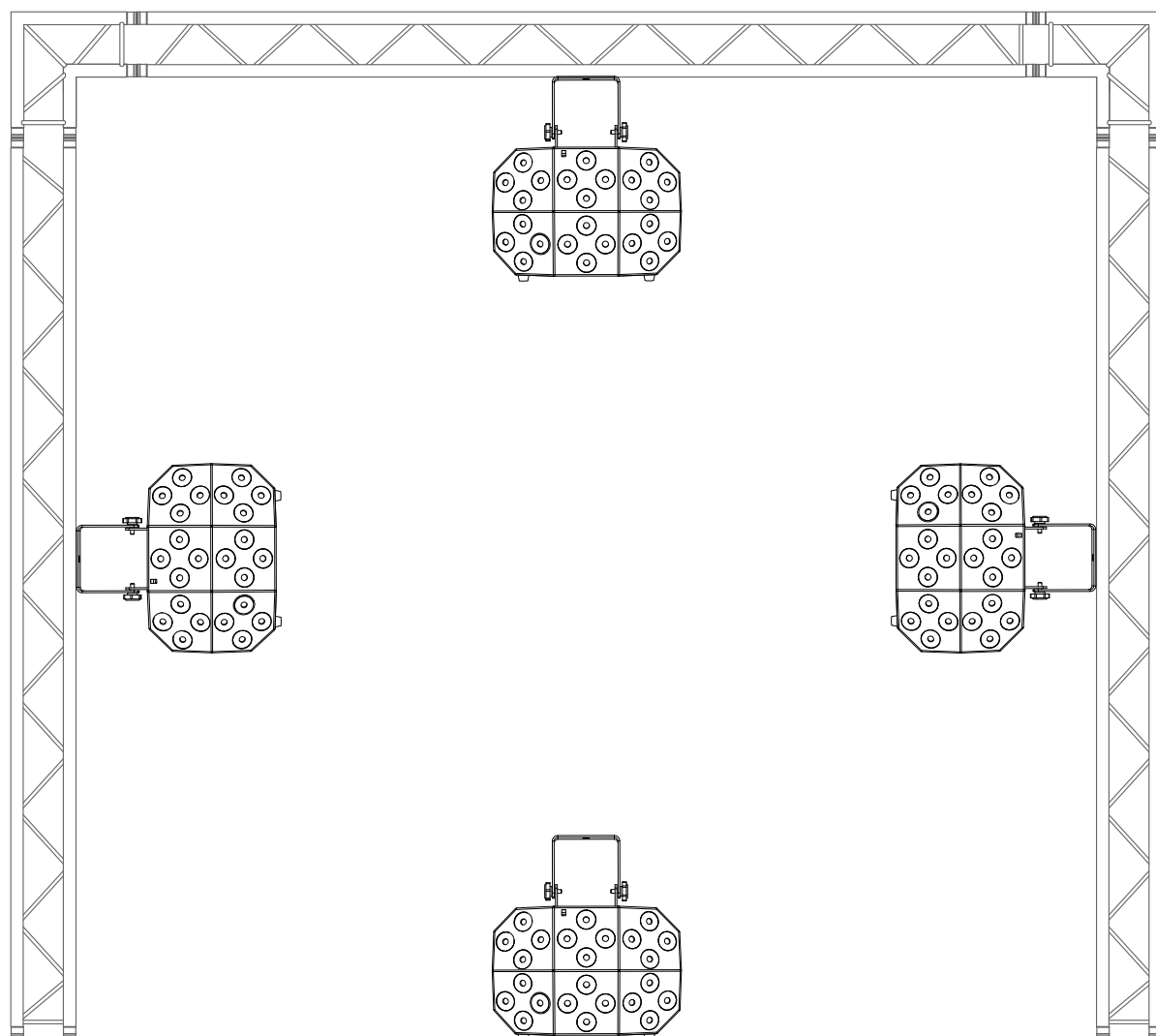
05 - Fans
06 - PowerTwist TR1 input
07 - PowerTwist TR1 output
08 - Fuse T5A 250V

09 - 3-Pin DMX input
10 - 3-Pin DMX output
11 - Safety eye
12 - IR receiver

In the box: **1 x fixture,**
1 x power cable &
1 IR remote

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.

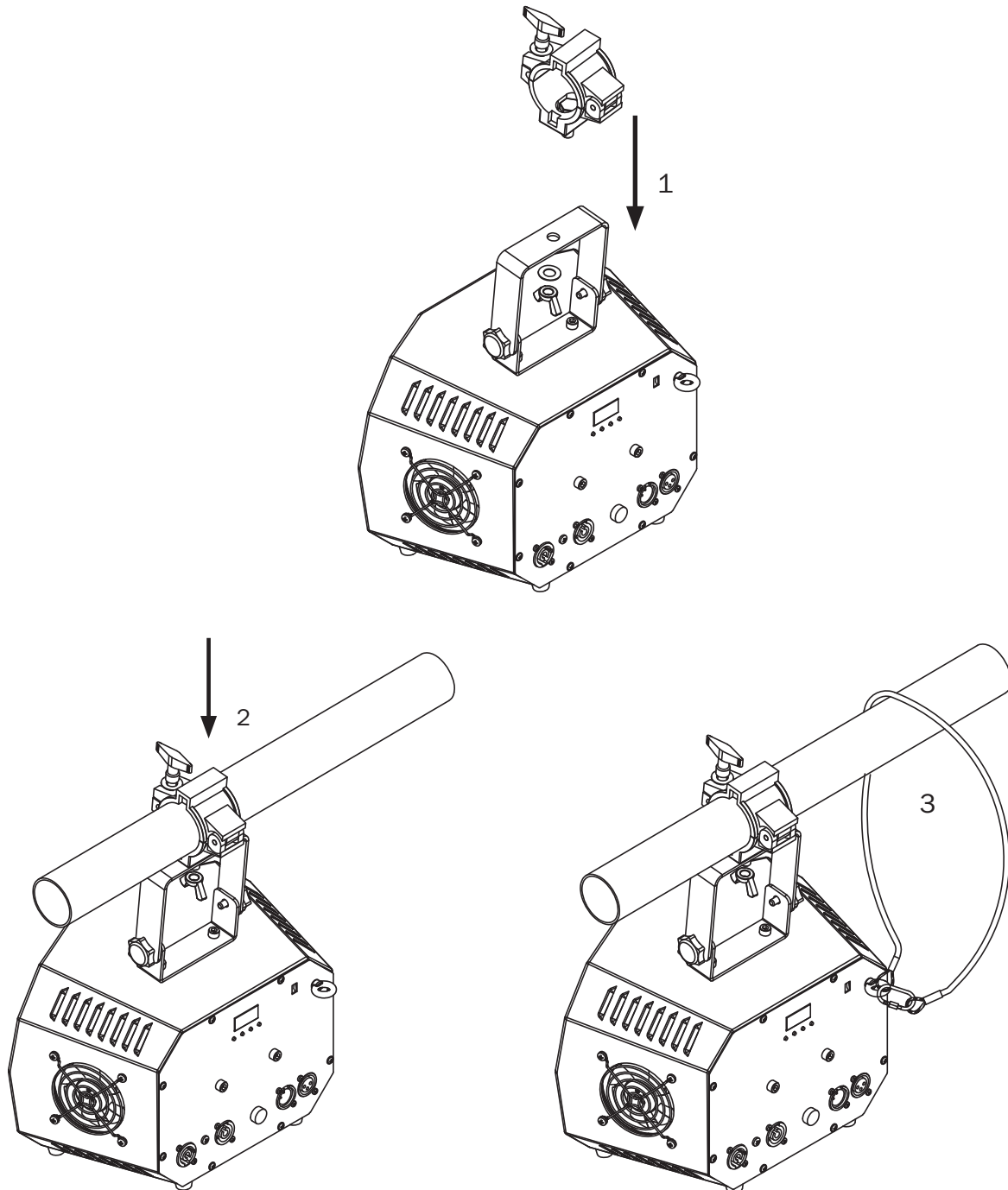


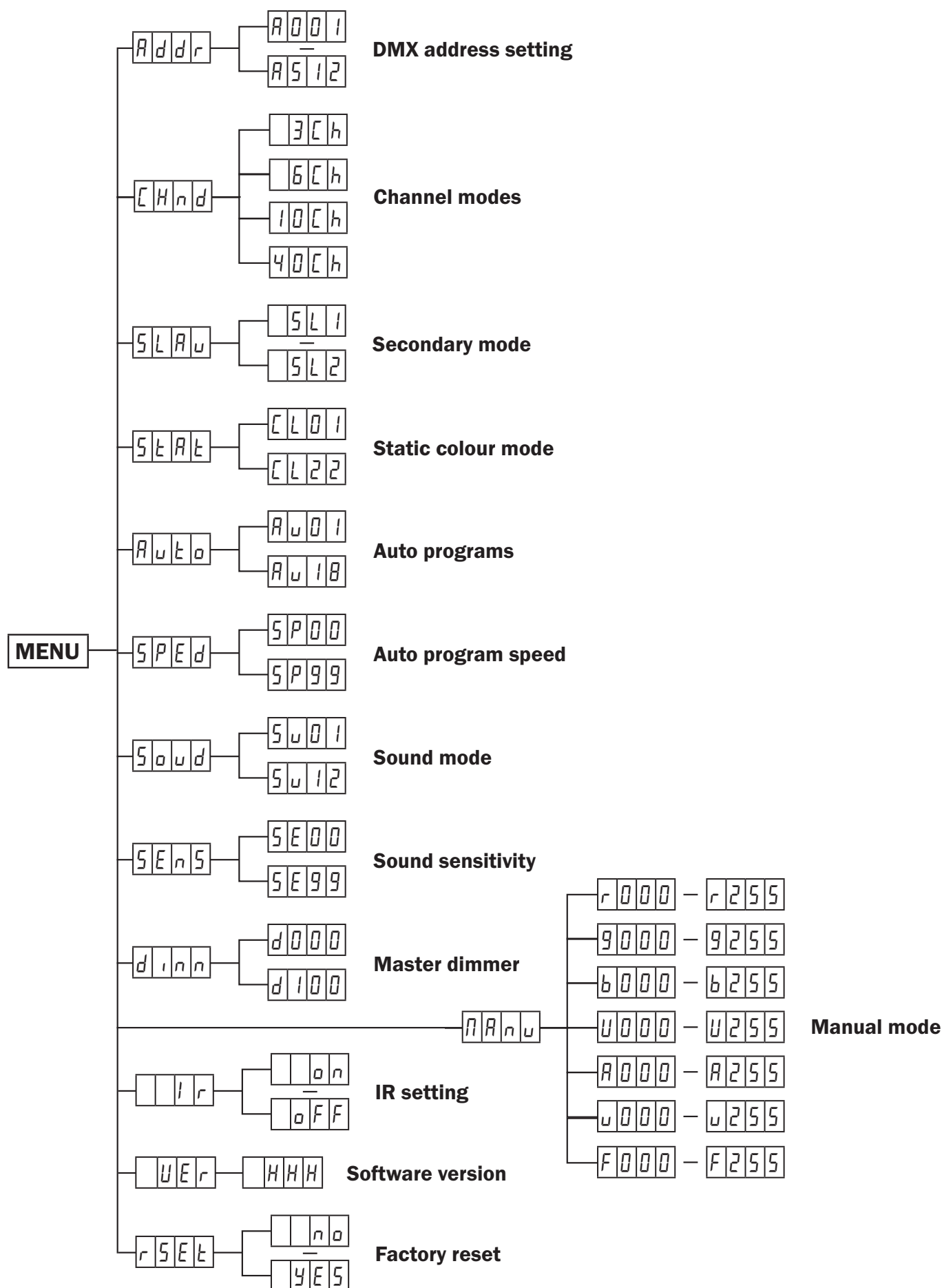
The Equinox Double Decker can be operated in a number of mounting positions as shown in the diagram above, hanging upside-down from the ceiling or truss, mounting sideways on truss or stood upright on a flat level surface. Always use a safety wire as an extra safety precaution to prevent damage/injury in the event a clamp fails (see the next page for clamp installation).

Never use the carry handles for secondary attachments.

Installation:

1. Fasten the clamp to the bracket on the top of the fixture.
2. Mount the fixture onto your truss system via the clamps and tighten to ensure it is secure.
3. Pull the safety cable through the safety eye located on the back of the fixture and around the truss.





DMX mode:

Operating in a DMX control mode environment gives the user the greatest flexibility when it comes to customising or creating a show. In this mode you will be able to control each individual trait of the fixture and each fixture independently.

To access the DMX address mode, press the “**MENU**” button and use the “**UP**” and “**DOWN**” buttons on the rear of the unit to show *Addr* on the LED 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. To exit out of any of the above options, press the “**MENU**” button.

DMX channel mode:

To access the DMX channel mode, press the “**MENU**” button and use the “**UP**” and “**DOWN**” buttons on the rear of the unit to show *Chnd* on the LED display. Now press the “**ENTER**” button and use the “**UP**” and “**DOWN**” buttons to choose one of the 3, 6, 10 or 40 DMX channel modes. Press the “**ENTER**” button to confirm the setting. To exit out of any of the above options, press the “**MENU**” button.

3 channel mode:

Channel	Value	Function
CH1	000-009	No function
	010-017	Auto Program 1
	018-025	Auto Program 2
	026-033	Auto Program 3
	034-041	Auto Program 4
	042-049	Auto Program 5
	050-057	Auto Program 6
	058-065	Auto Program 7
	066-073	Auto Program 8
	074-081	Auto Program 9
	082-089	Auto Program 10
	090-097	Auto Program 11
	098-105	Auto Program 12
	106-113	Auto Program 13
	114-121	Auto Program 14
	122-129	Auto Program 15
	130-137	Auto Program 16
	138-145	Auto Program 17
	146-153	Auto Programs 1-17 (cycle)
	154- 161	Sound Program 1
	162-169	Sound Program 2
	170-177	Sound Program 3
	178-185	Sound Program 4

Channel	Value	Function
CH1 (cont.)	186-193	Sound Program 5
	194-201	Sound Program 6
	202-209	Sound Program 7
	210-217	Sound Program 8
	218-225	Sound Program 9
	226-233	Sound Program 10
	234-241	Sound Program 11
	242-255	Sound Programs 1-11 (cycle)
CH2	000-255	Auto Program Speed (slow-fast)
CH3	000-255	Master dimmer (0-100%)

6 channel mode:

Channel	Value	Function
CH1	000-255	Red dimmer (0-100%)
CH2	000-255	Green dimmer (0-100%)
CH3	000-255	Blue dimmer (0-100%)
CH4	000-255	White dimmer (0-100%)
CH5	000-255	Amber dimmer (0-100%)
CH6	000-255	UV dimmer (0-100%)

10 channel mode:

Channel	Value	Function
CH1	000-255	Master dimmer (0-100%)
CH2	000-009	No function
	010-255	Strobe speed (slow-fast)
CH3	000-255	Red dimmer (0-100%)
CH4	000-255	Green dimmer (0-100%)
CH5	000-255	Blue dimmer (0-100%)
CH6	000-255	White dimmer (0-100%)
CH7	000-255	Amber dimmer (0-100%)
CH8	000-255	UV dimmer (0-100%)
CH9	000-009	No function
	010-017	Auto Program 1
	018-025	Auto Program 2
	026-033	Auto Program 3
	034-041	Auto Program 4
	042-049	Auto Program 5
	050-057	Auto Program 6
	058-065	Auto Program 7
	066-073	Auto Program 8
	074-081	Auto Program 9
	082-089	Auto Program 10
	090-097	Auto Program 11
	098-105	Auto Program 12
	106-113	Auto Program 13
	114-121	Auto Program 14
	122-129	Auto Program 15
	130-137	Auto Program 16
	138-145	Auto Program 17
	146-153	Auto Programs 1-17 (cycle)
	154-161	Sound Program 1
	162-169	Sound Program 2
	170-177	Sound Program 3
	178-185	Sound Program 4
	186-193	Sound Program 5
	194-201	Sound Program 6
	202-209	Sound Program 7
	210-217	Sound Program 8
	218-225	Sound Program 9
	226-233	Sound Program 10
	234-241	Sound Program 11

Channel	Value	Function
CH9 (cont.)	242-255	Sound Programs 1-11 (cycle)
CH10	000-255	Auto Program Speed (slow-fast)

40 channel mode:

Channel	Value	Function
CH1	000-009	No function
	010-017	Auto Program 1
	018-025	Auto Program 2
	026-033	Auto Program 3
	034-041	Auto Program 4
	042-049	Auto Program 5
	050-057	Auto Program 6
	058-065	Auto Program 7
	066-073	Auto Program 8
	074-081	Auto Program 9
	082-089	Auto Program 10
	090-097	Auto Program 11
	098-105	Auto Program 12
	106-113	Auto Program 13
	114-121	Auto Program 14
	122-129	Auto Program 15
	130-137	Auto Program 16
	138-145	Auto Program 17
	146-153	Auto Programs 1-17 (cycle)
	154-161	Sound Program 1
	162-169	Sound Program 2
	170-177	Sound Program 3
	178-185	Sound Program 4
	186-193	Sound Program 5
	194-201	Sound Program 6
	202-209	Sound Program 7
	210-217	Sound Program 8
	218-225	Sound Program 9
	226-233	Sound Program 10
	234-241	Sound Program 11
	242-255	Sound Programs 1-11 (cycle)
CH2	000-255	Auto Program Speed (slow-fast)
CH3	000-255	Master dimmer (0-100%)
CH4	000-009	No function
	010-255	Strobe speed (slow-fast)
CH5	000-255	Red Zone 1 dimmer (0-100%)
CH6	000-255	Green Zone 1 dimmer (0-100%)
CH7	000-255	Blue Zone 1 dimmer (0-100%)
CH8	000-255	White Zone 1 dimmer (0-100%)

Channel	Value	Function
CH9	000-255	Amber Zone 1 dimmer (0-100%)
CH10	000-255	UV Zone 1 dimmer (0-100%)
CH11	000-255	Red Zone 2 dimmer (0-100%)
CH12	000-255	Green Zone 2 dimmer (0-100%)
CH13	000-255	Blue Zone 2 dimmer (0-100%)
CH14	000-255	White Zone 2 dimmer (0-100%)
CH15	000-255	Amber Zone 2 dimmer (0-100%)
CH16	000-255	UV Zone 2 dimmer (0-100%)
CH17	000-255	Red Zone 3 dimmer (0-100%)
CH18	000-255	Green Zone 3 dimmer (0-100%)
CH19	000-255	Blue Zone 3 dimmer (0-100%)
CH20	000-255	White Zone 3 dimmer (0-100%)
CH21	000-255	Amber Zone 3 dimmer (0-100%)
CH22	000-255	UV Zone 3 dimmer (0-100%)
CH23	000-255	Red Zone 4 dimmer (0-100%)
CH24	000-255	Green Zone 4 dimmer (0-100%)
CH25	000-255	Blue Zone 4 dimmer (0-100%)
CH26	000-255	White Zone 4 dimmer (0-100%)
CH27	000-255	Amber Zone 4 dimmer (0-100%)
CH28	000-255	UV Zone 4 dimmer (0-100%)
CH29	000-255	Red Zone 5 dimmer (0-100%)
CH30	000-255	Green Zone 5 dimmer (0-100%)
CH31	000-255	Blue Zone 5 dimmer (0-100%)
CH32	000-255	White Zone 5 dimmer (0-100%)
CH33	000-255	Amber Zone 5 dimmer (0-100%)
CH34	000-255	UV Zone 5 dimmer (0-100%)
CH35	000-255	Red Zone 6 dimmer (0-100%)
CH36	000-255	Green Zone 6 dimmer (0-100%)
CH37	000-255	Blue Zone 6 dimmer (0-100%)
CH38	000-255	White Zone 6 dimmer (0-100%)
CH39	000-255	Amber Zone 6 dimmer (0-100%)
CH40	000-255	UV Zone 6 dimmer (0-100%)

Primary/secondary mode:

To set the primary unit, press the “MENU” button and use the “UP” and “DOWN” buttons on the rear of the unit to select one of the auto programs, sound programs or manual modes on the LED display.

To set the other units in secondary mode, press the “MENU” button and use the “UP” and “DOWN” buttons on the rear of the unit to show *SL AL* on the LED display. Now press the “ENTER” button and use the “UP” and “DOWN” buttons to choose either *SL 1* or *SL 2*.

Press the “ENTER” button to confirm the setting.

The unit/s will now run in sequence with the primary unit.

Please ensure that all slave units are set to the same DMX channel mode as the master unit.

Static colour mode:

To access the static colour mode, press the “MENU” button and use the “UP” and “DOWN” buttons on the rear of the unit to show *SL AL* on the LED display. Now press the “ENTER” button and use the “UP” and “DOWN” buttons to choose between *CL 01* to *CL 22*.

Press the “ENTER” button to confirm the setting.

Auto programs:

To access the auto programs, press the “MENU” button and use the “UP” and “DOWN” buttons on the rear of the unit to show *AL 00* on the LED display. Now press the “ENTER” button and use the “UP” and “DOWN” buttons to choose between *AL 01* to *AL 18*.

Press the “ENTER” button to confirm the setting.

To adjust the speed of the auto program, press the “MENU” button and use the “UP” and “DOWN” buttons on the rear of the unit to show *SPEED* on the LED display. Now press the “ENTER” button and use the “UP” and “DOWN” buttons to choose between *SP 00* (slow) to *SP 99* (fast).

Press the “ENTER” button to confirm the setting.

Sound active:

To access the sound active mode, press the “MENU” button and use the “UP” and “DOWN” buttons on the rear of the unit to show *Sound* on the LED display. Now press the “ENTER” button and use the “UP” and “DOWN” buttons to choose between *SO 01* to *SO 12*.

Press the “ENTER” button to confirm the setting.

To adjust the sensitivity of the sound mode, press the “MENU” button and use the “UP” and “DOWN” buttons on the rear of the unit to show *SENS* on the LED display. Now press the “ENTER” button and use the “UP” and “DOWN” buttons to choose between *SE 00* (low) to *SE 99* (high).

Press the “ENTER” button to confirm the setting.

Master dimmer:

To access the master dimmer setting, press the “MENU” button and use the “UP” and “DOWN” buttons on the rear of the unit to show *dim* on the LED display. Now press the “ENTER” button and use the “UP” and “DOWN” buttons to choose between *0000* (LED off) to *1000* (full brightness).

Press the “ENTER” button to confirm the setting.

Manual mode:

To access the manual mode, press the “MENU” button and use the “UP” and “DOWN” buttons on the rear of the unit to show **M A N U** on the LED display. Now press the “ENTER” button and use the “UP” and “DOWN” buttons to choose between **r** (red), **g** (green), **b** (blue), **U** (white), **A** (amber), **UV** (UV) or **F** (strobe). Press the “ENTER” button and use the “UP” and “DOWN” buttons to choose between **000** (0% brightness / no strobe) to **255** (100% brightness / strobe fast). Press the “ENTER” button to confirm the setting.

IR remote:

To access the IR remote setting, press the “MENU” button and use the “UP” and “DOWN” buttons on the rear of the unit to show **I r** on the LED display. Now press the “ENTER” button and use the “UP” and “DOWN” buttons to choose between **00** to **0FF**.

Press the “ENTER” button to confirm the setting.

Software version:

To access the software version information, press the “MENU” button and use the “UP” and “DOWN” buttons on the rear of the unit to show **U E r** on the LED display. Now press the “ENTER” button and the software version will be displayed.

Factory reset:

To access factory reset setting, press the “MENU” button and use the “UP” and “DOWN” buttons on the rear of the unit to show **r S E t** on the LED display. Now press the “ENTER” button and use the “UP” and “DOWN” buttons to choose between **n o** to **Y E S**.

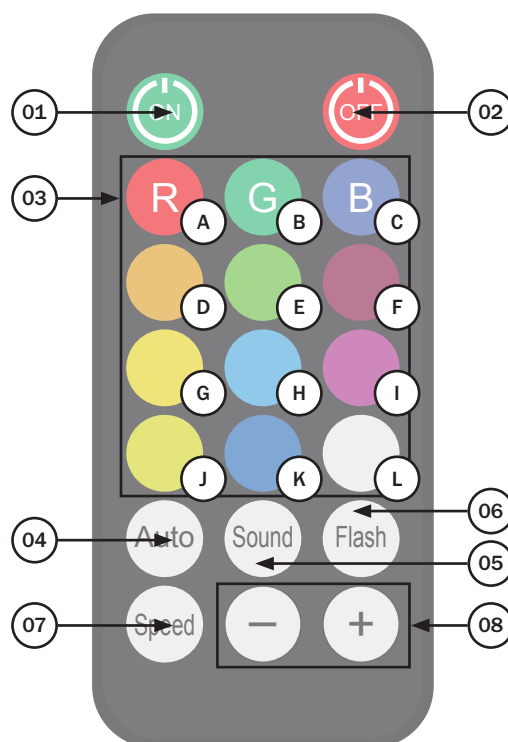
Press the “ENTER” button to confirm the setting.

To exit out of any of the above options, press the “MENU” button.

IR remote functions:

- 01 - Sets the unit into blackout off (LED on)
- 02 - Sets the unit into blackout on (LED off)
- 03 - Sets the static colour (see chart key for colours)

A - Red	E - Lime Green	I - Magenta
B - Green	F - Pink	J - Yellow
C - Blue	G - Amber	K - Purple/Blue
D - Orange	H - Cyan	L - White
- 04 - Runs the built-in programs, use the '+' and '-' buttons to go through the programs and then the 'Speed' button followed by the '+' and '-' buttons to adjust the program speed
- 05 - Runs the sound programs, use the '+' and '-' buttons to go through the programs
- 06 - Sets the LEDs to flash, use the '+' and '-' buttons to change the flash speed
- 07 - Sets the built in program speed. Press this button followed by the '+' and '-' buttons to adjust the program speed
- 08 - Adjusts the built-in programs and built-in program speed, sound program, flash speed for static colour, brightness of static colour



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:

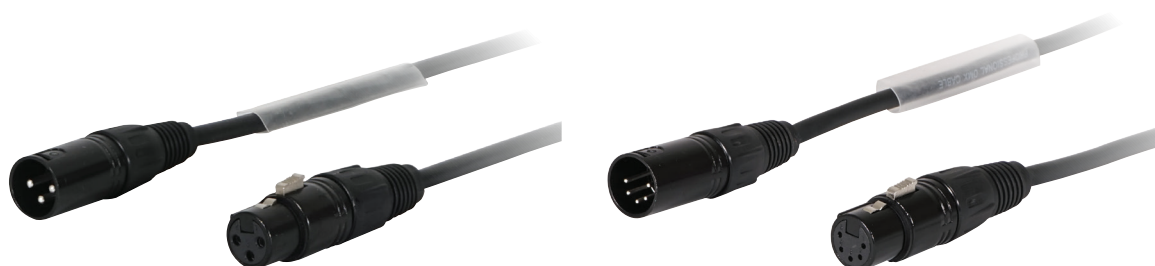
DMX (Digital Multiplex) is a universal protocol used as a form of communication between intelligent fixtures and controllers. A DMX controller sends DMX data instructions from the controller to the fixture. DMX data is sent as serial data that travels from fixture to fixture via the DATA “IN” and DATA “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.

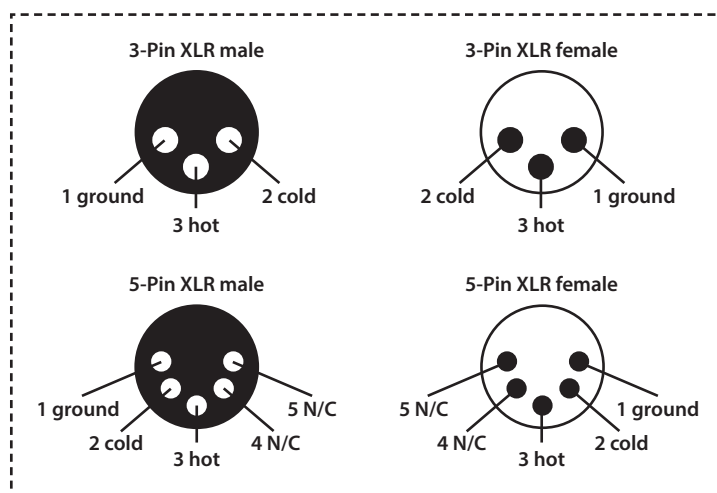
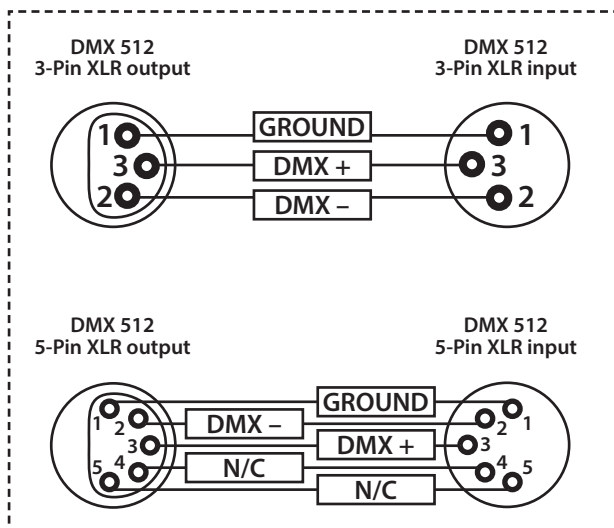
Please quote:	3-Pin:	CABL10 – 2m	CABL11 – 5m	CABL12 – 10m
	5-Pin:	CABL185 – 2m	CABL187 – 5m	CABL188 – 10m

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



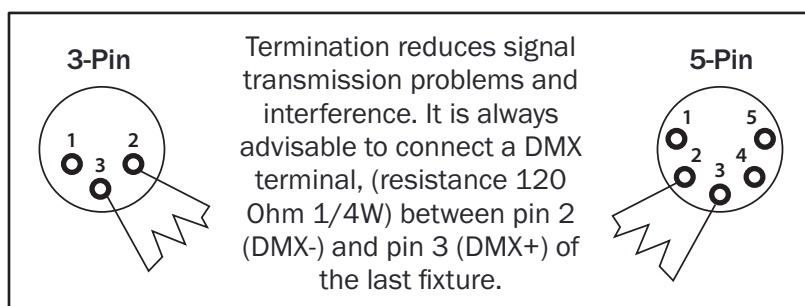
Line termination:

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.

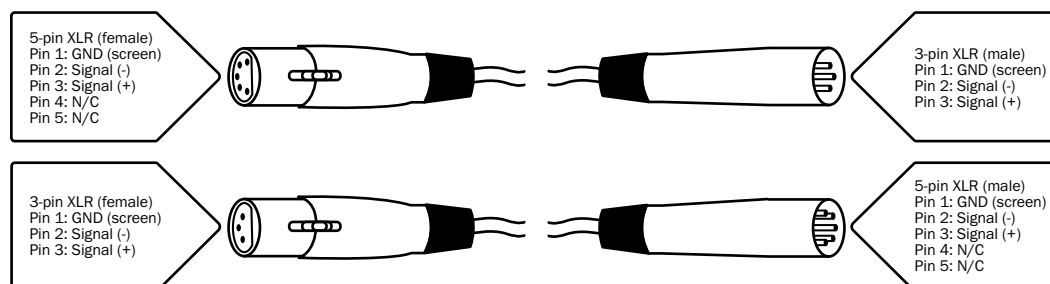
(3-pin - Order ref: CABL90,

5-pin - Order ref: CABL89)



5-pin XLR DMX connectors:

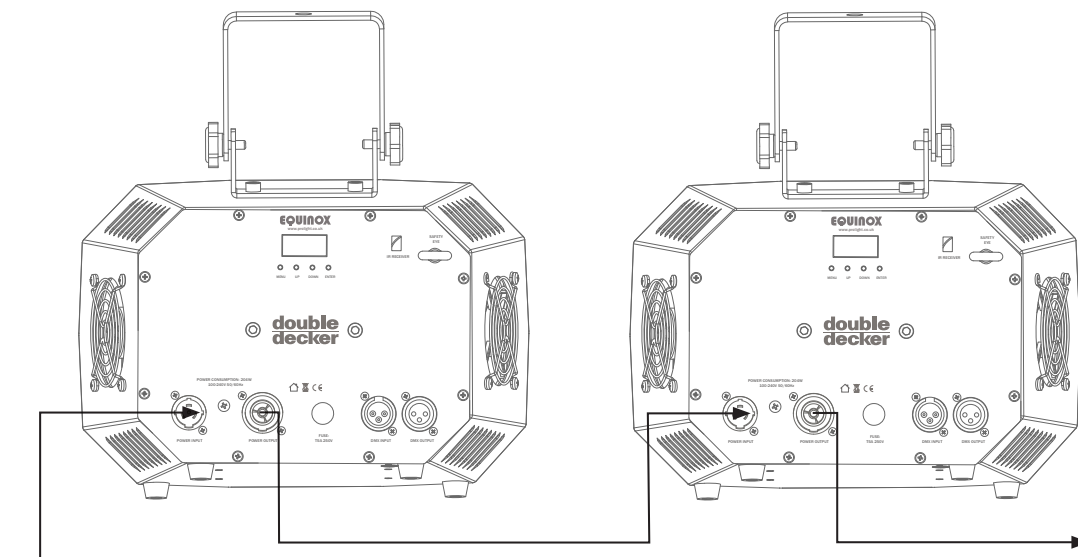
Some manufactures use 5-pin XLR connectors for data transmission in place of 3-pin. 5-pin XLR fixtures may be implemented in a 3-pin XLR DMX line. When inserting standard 5-pin XLR connectors in to a 3-pin line a cable adaptor must be used. The diagram below details the correct cable conversion.



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 8 fixtures @ 240V or 4 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 Double Decker as the power consumption of other fixtures will vary. Fixtures fitted with lamps often require 2/3 times more current on startup, these may require their own power source.



Correct Disposal of this Product (Waste Electrical & Electronic Equipment)

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

This marking shown on the product or its literature, indicates that it should not be disposed of 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.