EQUINOX

MoonPar MKII

User Manual



Order code: EQLED466

20261014.1

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.
- 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.

MoonPar MKII

The MoonPar projects a wide array of multicoloured beams of light that rotate and twist around the room. 15 tri-colour LEDs sit in circle around the front of the unit adding a coloured wash effect for an extra dimension. Control is facilitated via the 4 push button menu on the rear, to select between DMX, auto or sound modes plus the built-in programs.

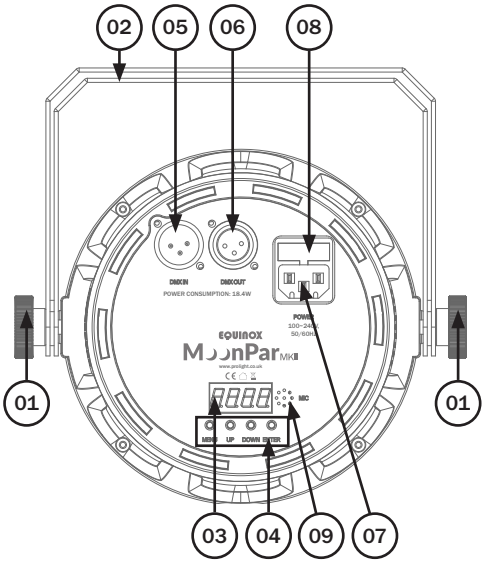
- Par: 15 x 1W tri-colour LEDs (RGB)
- Moonflower: 4 x 3W LEDs (R: 1, G: 1, B: 1, A: 1)
- Beam angle: 25°
- DMX channels: 4/9/21/27 or 30 selectable
- Auto, sound active and primary/ secondary modes plus built-in programs
- 0-100% dimming
- Variable strobe
- 4 push button menu with LED display
- IEC power input
- 3-Pin XLR input/output
- Convection cooled
- Supplied with IR remote

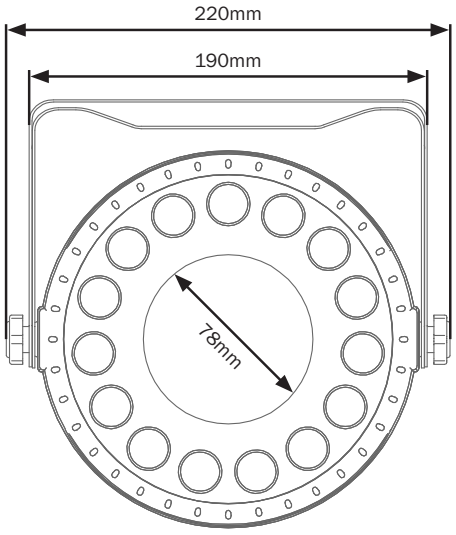


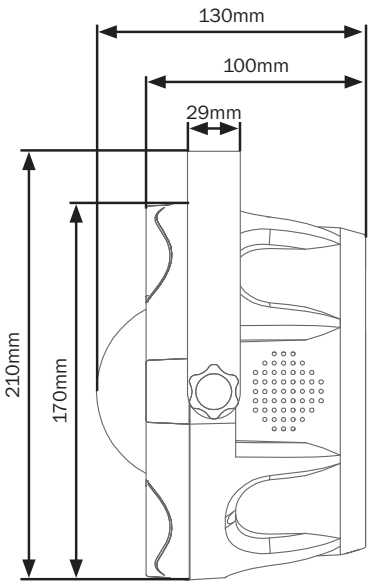
Specifications	
Power consumption	18.4W
Power supply	100~240V, 50/60Hz
Fuse	T1A 250V
Dimensions	210 x 220 x 130mm
Weight	1.1kg
Order code	EQLED466

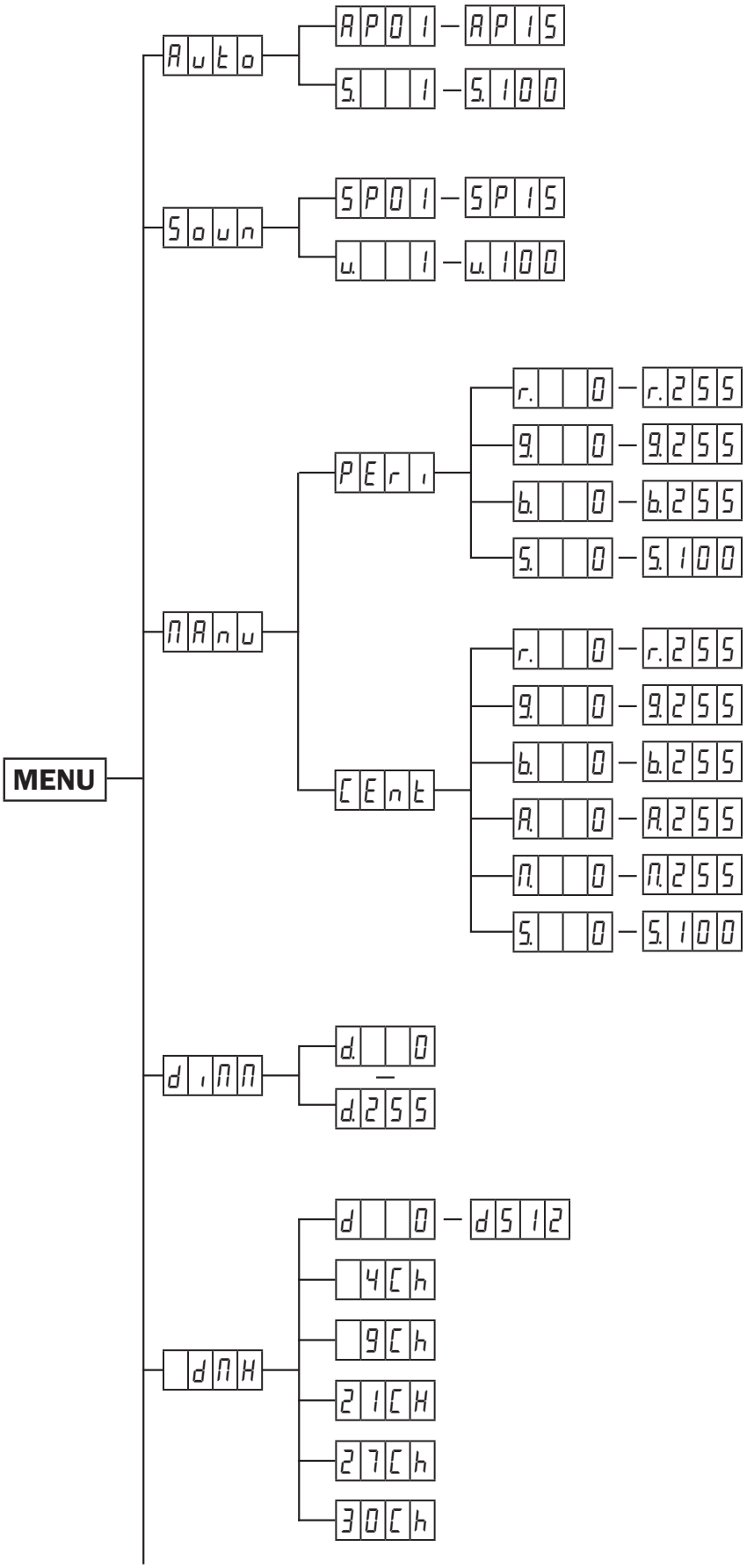
01 - Bracket tightening knobs
02 - Bracket
03 - LED display
04 - Function buttons
05 - 3-Pin XLR input
06 - 3-Pin XLR output
07 - IEC power input
08 - Fuse F1A 250V
09 - Microphone

In the box:
1 x fixture
1 x mounting bracket
1 x IR remote
& 1 x power cable









Auto mode

Auto mode speed

Sound mode

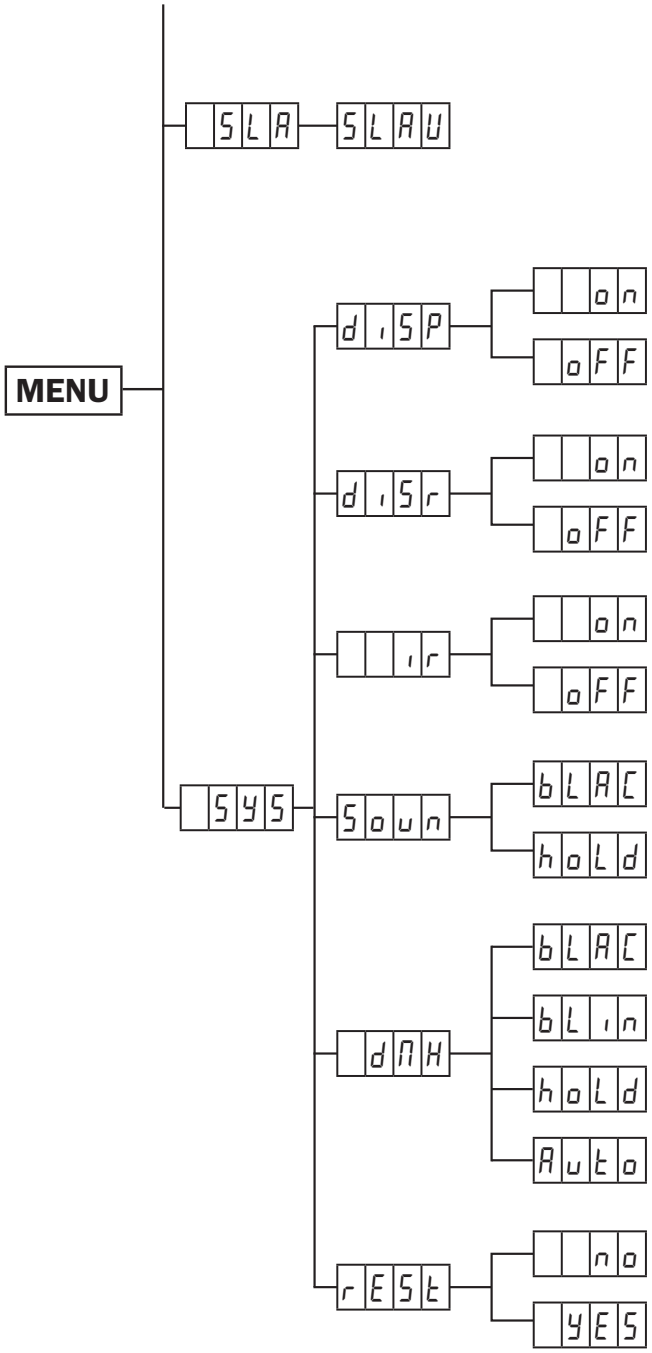
Sound sensitivity

Manual mode (LEDs)

Master dimmer mode

DMX address setting

Channel modes



Primary/secondary mode

LED display on/off

Led display Inverse setting

IR remote control active mode

Sound active mode

DMX fail setting

Factory reset

Auto modes:

To access the auto modes, press the "**MENU**" button to show Auto on the LED display.
Now press the "**ENTER**" button and use the "**UP**" and "**DOWN**" buttons to choose the required auto mode AP01~AP15. Press the "**ENTER**" button to confirm the setting.
The display will show S. 1~S100 on the LED display. Now press the "**ENTER**" button and use the "**UP**" and "**DOWN**" buttons to choose the required auto mode speed. Press the "**ENTER**" button to confirm the setting. To exit out of any of the above options, press the "**MENU**" button.

Sound mode:

To access the sound modes, press the "**MENU**" button to show Soun on the LED display.
Now press the "**ENTER**" button and use the "**UP**" and "**DOWN**" buttons to choose the required auto mode SP01~SP15. Press the "**ENTER**" button to confirm the setting. Now press the "**ENTER**" button, the display will show u. 1~u.100 on the LED display. Use the "**UP**" and "**DOWN**" buttons to choose the required sound mode speed.
To exit out of any of the above options, press the "**MENU**" button.
The display will show SAVE on the LED display once the setting has been saved.
To exit out of any of the above options, press the "**MENU**" button.

Manual mode:

To access the manual dimming mode, press the "**MENU**" button on the rear of the unit to show MAnu on the LED display. The unit is now in manual dimming mode. Press the "**ENTER**" button and use the "**UP**" and "**DOWN**" buttons to set the brightness of from r. 0~r.255. Repeat for 9, b, A, n and S. Press the "ENTER" button to confirm the setting.
(0 = LED off, 255 = LED at full brightness).
To exit out of any of the above options, press the "**MENU**" button.

Master dimmer mode:

To access the master dimming mode, press the "**MENU**" button on the rear of the unit to show dI nn on the LED display. The unit is now in msterl dimming mode. Press the "**ENTER**" button and use the "**UP**" and "**DOWN**" buttons to set the brightness of from d. 0~d.255. Press the "**ENTER**" button to confirm the setting.
To exit out of any of the above options, press the "**MENU**" button.

DMX mode:

To access the DMX address mode, press the "**MENU**" button to show dMH on the LED display. 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.

4 channel mode:

Channel	Value	Function
1	000-255	Master dimmer (0-100%)
2	000-127	Auto mode
	128-255	Sound mode
3	000-010	No function
	011-045	Program 1
	046-080	Program 2
	081-115	Program 3
	116-150	Program 4
	151-185	Program 5
	186-220	Program 6
	221-255	Program 7
4	000-255	Program speed (slow-fast) when CH2 is between 000-127 Sound sensitivity (low-high) when CH2 is between 128-255

9 channel mode:

Channel	Value	Function	
1	000-255	Master dimmer (0-100%)	
2	000-255	Red dimmer (0-100%)	
3	000-255	Green dimmer (0-100%)	
4	000-255	Blue dimmer (0-100%)	
5	000-255	Red dimmer (0-100%)	Moonflower
6	000-255	Green dimmer (0-100%)	
7	000-255	Blue dimmer (0-100%)	
8	000-255	Amber dimmer (0-100%)	
9	000-127	Motor index	
	128-255	Motor rotation speed (slow-fast)	

21 channel mode:

Channel	Value	Function	
1	000-255	Master dimmer (0-100%)	
2	000-255	Red dimmer (0-100%)	Led Par Segment 1
3	000-255	Green dimmer (0-100%)	
4	000-255	Blue dimmer (0-100%)	
5	000-255	Red dimmer (0-100%)	Led Par Segment 2
6	000-255	Green dimmer (0-100%)	
7	000-255	Blue dimmer (0-100%)	
8	000-255	Red dimmer (0-100%)	Led Par Segment 3
9	000-255	Green dimmer (0-100%)	
10	000-255	Blue dimmer (0-100%)	
11	000-255	Red dimmer (0-100%)	Led Par Segment 4
12	000-255	Green dimmer (0-100%)	
13	000-255	Blue dimmer (0-100%)	
14	000-255	Red dimmer (0-100%)	Led Par Segment 5
15	000-255	Green dimmer (0-100%)	
16	000-255	Blue dimmer (0-100%)	
17	000-255	Red dimmer (0-100%)	Moonflower
18	000-255	Green dimmer (0-100%)	
19	000-255	Blue dimmer (0-100%)	
20	000-255	Amber dimmer (0-100%)	
21	000-127	Motor index	
	128-255	Motor rotation speed (slow-fast)	

27 channel mode:

Channel	Value	Function	
1	000-255	Master dimmer (0-100%)	
2	000-255	Red dimmer (0-100%)	Led Par Segment 1
3	000-255	Green dimmer (0-100%)	
4	000-255	Blue dimmer (0-100%)	
5	000	No function	
	001-255	Strobe (slow-fast)	
6	000-255	Red dimmer (0-100%)	Led Par Segment 2
7	000-255	Green dimmer (0-100%)	
8	000-255	Blue dimmer (0-100%)	
9	000	No function	
	001-255	Strobe (slow-fast)	
10	000-255	Red dimmer (0-100%)	Led Par Segment 3
11	000-255	Green dimmer (0-100%)	
12	000-255	Blue dimmer (0-100%)	
13	000	No function	
	001-255	Strobe (slow-fast)	
14	000-255	Red dimmer (0-100%)	Led Par Segment 4
15	000-255	Green dimmer (0-100%)	
16	000-255	Blue dimmer (0-100%)	
17	000	No function	
	001-255	Strobe (slow-fast)	
18	000-255	Red dimmer (0-100%)	Led Par Segment 5
19	000-255	Green dimmer (0-100%)	
20	000-255	Blue dimmer (0-100%)	
21	000	No function	
	001-255	Strobe (slow-fast)	
22	000-255	Red dimmer (0-100%)	Moonflower
23	000-255	Green dimmer (0-100%)	
24	000-255	Blue dimmer (0-100%)	
25	000-255	Amber dimmer (0-100%)	
26	000	No function	
	001-255	Strobe (slow-fast)	
27	000-127	Motor index	
	128-255	Motor rotation speed (slow-fast)	

30 channel mode:

Channel	Value	Function	
1	000-255	Master dimmer (0-100%)	
2	000-255	Red dimmer (0-100%)	Led Par Segment 1
3	000-255	Green dimmer (0-100%)	
4	000-255	Blue dimmer (0-100%)	
5	000	No function	
	001-255	Strobe (slow-fast)	
6	000-255	Red dimmer (0-100%)	Led Par Segment 2
7	000-255	Green dimmer (0-100%)	
8	000-255	Blue dimmer (0-100%)	
9	000	No function	
	001-255	Strobe (slow-fast)	
10	000-255	Red dimmer (0-100%)	Led Par Segment 3
11	000-255	Green dimmer (0-100%)	
12	000-255	Blue dimmer (0-100%)	
13	000	No function	
	001-255	Strobe (slow-fast)	
14	000-255	Red dimmer (0-100%)	Led Par Segment 4
15	000-255	Green dimmer (0-100%)	
16	000-255	Blue dimmer (0-100%)	
17	000	No function	
	001-255	Strobe (slow-fast)	
18	000-255	Red dimmer (0-100%)	Led Par Segment 5
19	000-255	Green dimmer (0-100%)	
20	000-255	Blue dimmer (0-100%)	
21	000	No function	
	001-255	Strobe (slow-fast)	
22	000-255	Red dimmer (0-100%)	Moonflower
23	000-255	Green dimmer (0-100%)	
24	000-255	Blue dimmer (0-100%)	
25	000-255	Amber dimmer (0-100%)	
26	000	No function	
	001-255	Strobe (slow-fast)	
27	000-127	Motor index	
	128-255	Motor rotation speed (slow-fast)	
28	000-127	Auto mode	
	128-255	Sound mode	
29	000-010	No function	
	011-045	Program 1	
	046-080	Program 2	
	081-115	Program 3	

30 channel mode (cont.):

Channel	Value	Function
29 (cont.)	116-150	Program 4
	151-185	Program 5
	186-220	Program 6
	221-255	Program 7
30	000-255	Program speed (slow-fast) when CH28 is between 000-127 Sound sensitivity (low-high) when CH28 is between 128-255

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 built-in programs, sound programs or manual modes on the LED display. Toset 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 SLA , than SLAU on the LED display. Press the "**ENTER**" button to confirm the setting. The unit/s will now run in sequence with the primary unit. Please ensure that all secondary units are set to the same DMX channel mode as the primary unit.

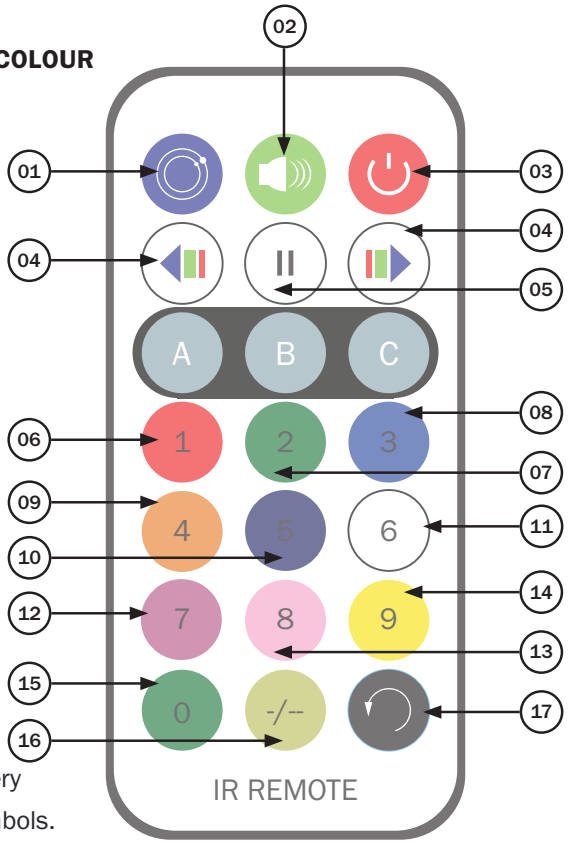
System setting:

To access system settings, press the "**MENU**" button and use the "**UP**" and "**DOWN**" buttons on the rear of the unit to show SYS on the LED display. Press the "**ENTER**" button for the following options to be displayed;

- dISP – Display backlight
  - on – Display blacks out after the menu is not operated for a number of seconds
  - oFF – Display remains on
- dISr – Display invert
  - on – display invert is enabled
  - oFF – display invert is disabled
- ir – Infrared remote setting
  - on – IR remote control is enabled
  - oFF – IR remote control is disabled
- Soun – Set how the unit works when there is no sound
  - LASt – Last effect remains when no sound is detected
  - oFF – LEDs blackout when no sound is detected
- dMH –DMX fail setting
  - bLAC – LEDs blackout when DMX is lost
  - bL in – LEDs illuminate at full output when DMX is lost
  - hoLd – Holds the last value when DMX is lost
  - Auto - runs its built-in shows when DMX is lost
- rSEt – Resets the unit to default settings
  - YES – Confirms reset to default
  - no – Returns to previous menu

IR remote functions:

01 - Enables **AUTO MODE** - use ◀ and ▶ to select program. Use ◀ and ▶ to adjust speed.
02 - Enables **SOUND MODE** use ◀ and ▶ to select program. Use ◀ and ▶ to adjust sound sensitivity.
03 - **BLACKOUT**
04 - Use to select **AUTO SOUND** program, program **SPEED** or **STATIC COLOUR**
05 - Pauses **AUTO/SOUND** programs
06 - **RED**
07 - **GREEN**
08 - **LIGHT BLUE**
09 - **AMBER**
10 - **BLUE**
11 - **WHITE (RGB)**
12 - **PURPLE**
13 - **MAGENTA**
14 - **YELLOW**
15 - **CYAN**
16 - **WARM WHITE (RGB)**
17 - Changes between **AUTO MODE, AUTO MODE SPEED** and **SOUND SENSITIVITY**



Remote Control Identification:

01 - When installing the battery (**Type CR2025**) please ensure the battery is orientated to maintain correct polarity following the + and – symbols.
02 - The remote control should be aimed directly at the IR receiver window from a distance of up to 8m.
03 - Should the working distance or the remote become reduced, or the remote becomes unresponsive, please change battery talking care to install a high-quality replacement.
04 - Please remove the battery and store safely when unused for long periods of time.
05 - The remote control should be handled carefully and protected from damage.

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. Using audio XLR cables for DMX lighting is discouraged because it causes signal degradation, leading to flickering, erratic, or non-responsive lights. Audio cables have different impedance (<75 Ω) and higher capacitance, which cannot accurately transmit high-speed digital DMX data (110-120 Ω). While it may work for short, simple setups, it is unreliable for professional, long-distance, or complex lighting rigs. Ensure you use DMX XLR cables.



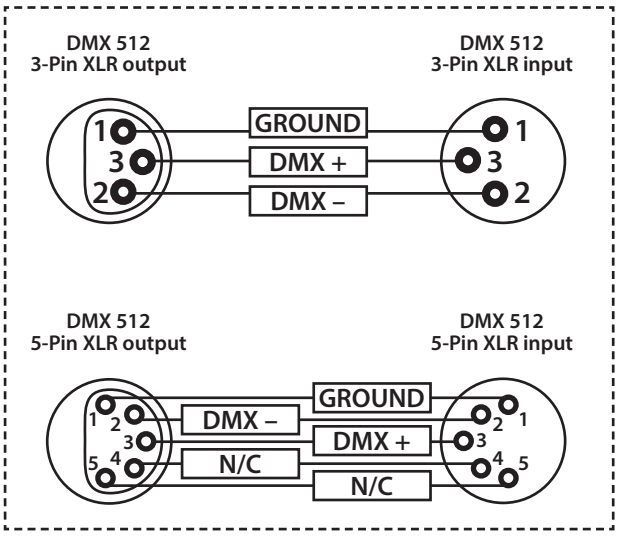
Further DMX cables can be purchased from all good sound and lighting suppliers or Prolight Concepts dealers.
Please quote: 3-Pin: **CABL10 – 2m** **CABL11 – 5m** **CABL12 – 10m**

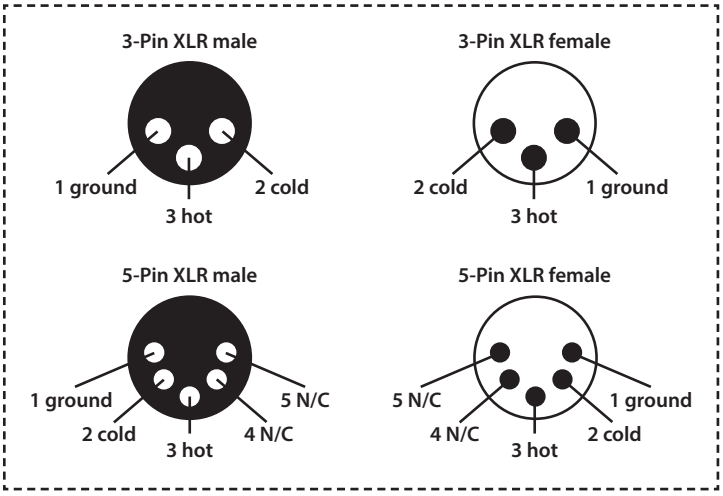
Also remember that DMX cable must be daisy chained and cannot be split.

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

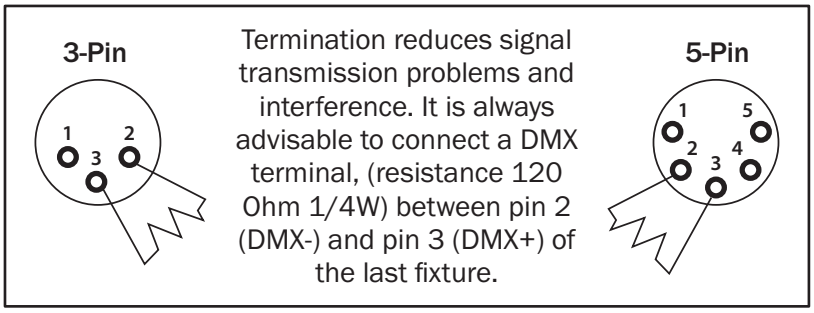




Line termination:

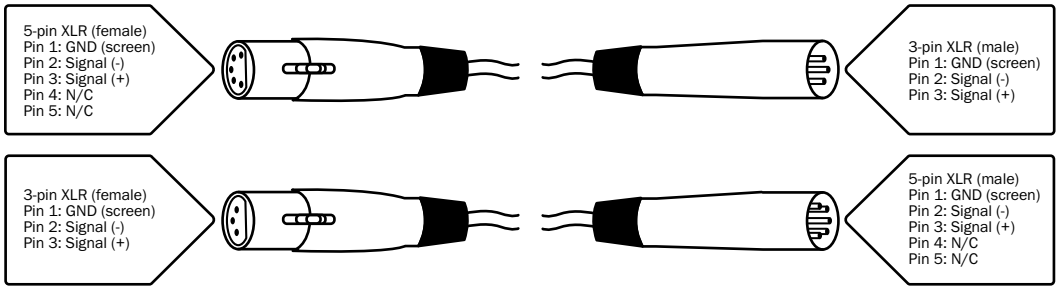
When longer runs of cable are used, you may need to use a terminator on the last unit to avoid erratic behaviour.

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.





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.

This notice does not imply a requirement for the product to be returned to the manufacturer or supplier, disposal should be carried out via appropriate authorised recycling facilities in accordance with local regulations.