

EQUINOX

Junior 150 Fresnel WW User Manual



Order code: EQLED454

WARNING

FOR YOUR OWN SAFETY, PLEASE READ THIS USER MANUAL CAREFULLY BEFORE YOUR INITIAL START-UP!

- Before your initial start-up, please make sure that there is no damage caused during transportation.
- Should there be any damage, consult your dealer and do not use the equipment.
- To maintain the equipment in good working condition and to ensure safe operation, it is necessary for the user to follow the safety instructions and warning notes written in this manual.
- Please note that damages caused by user modifications to this equipment are not subject to warranty.



IMPORTANT:

The manufacturer will not accept liability for any resulting damages caused by the non-observance of this manual or any unauthorised modification to the equipment.

- Never let the power cable come into contact with other cables. Handle the power cable and all mains voltage connections with particular caution!
- Never remove warning or informative labels from the unit.
- Do not open the equipment and do not modify the unit.
- Do not connect this equipment to a dimmer pack.
- Do not switch the equipment on and off in short intervals, as this will reduce the system's life.
- Only use the equipment indoors.
- Do not expose to flammable sources, liquids or gases.
- Always disconnect the power from the mains when equipment is not in use or before cleaning! Only handle the power-cable by the plug. Never pull out the plug by pulling the power-cable.
- Make sure that the available mains supply voltage is between 100~240V AC, 50/60Hz.
- Make sure that the power cable is never crimped or damaged. Check the equipment and the power cable periodically.
- If the equipment 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.

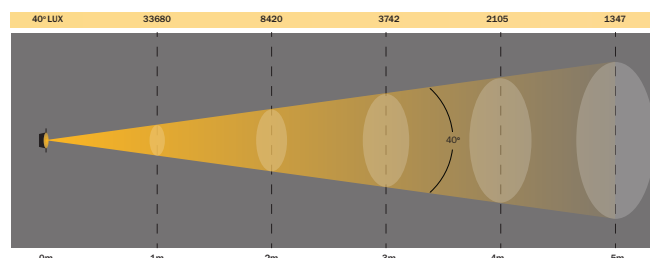
Junior 150 Fresnel WW

The Equinox Junior 150 Fresnel is a compact and robust stage lighting fixture designed for small stages, studios, and display lighting applications. This general-purpose Fresnel LED light delivers impressive light output from its 150W warm white COB LED source, offering a consistent 2,900K colour temperature and high CRI rating of 90 for natural colour rendering.

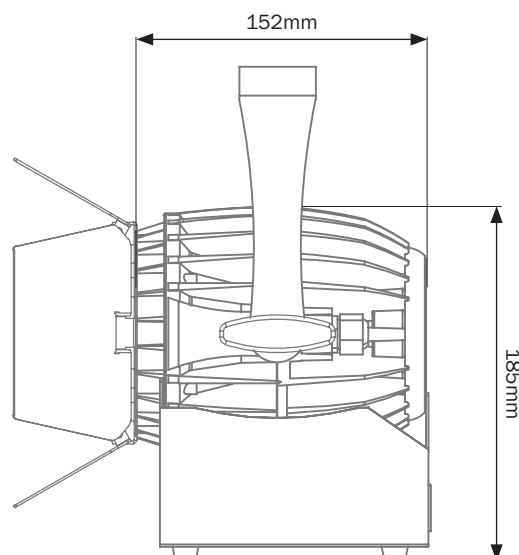
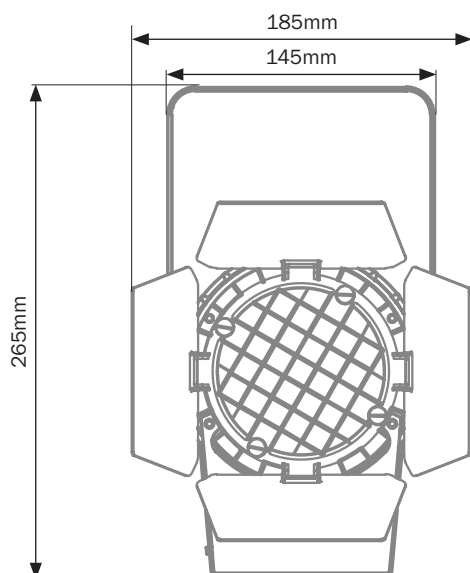
With a fixed 40° beam angle, the Junior 150 provides an even wash of light and is perfect for environments where space is at a premium but professional-grade lighting is required. The intuitive 4-button menu with LED display allows for selection of DMX or manual dimming modes, as well as access to multiple dimming curve profiles including LED and halogen emulation.

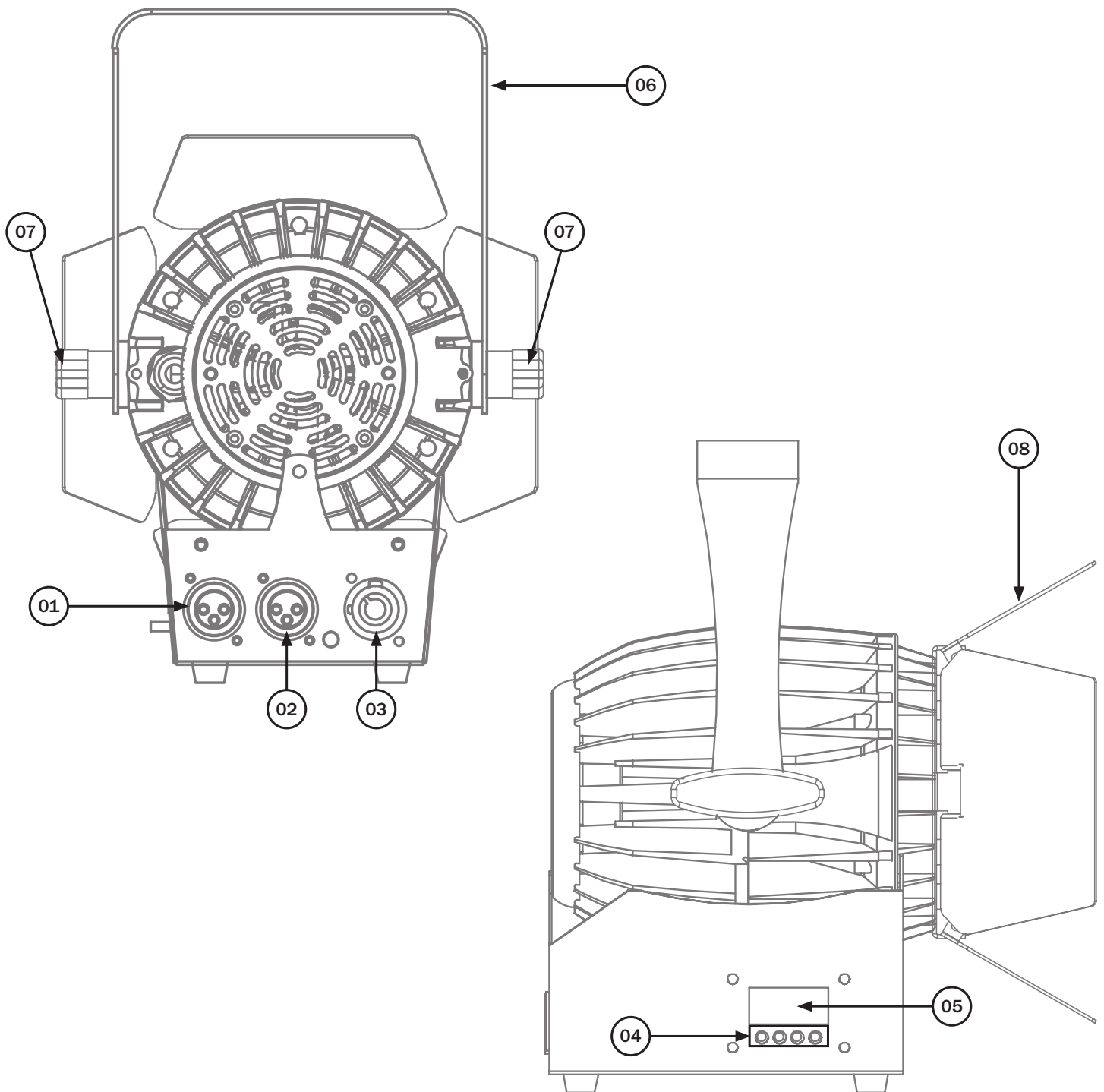
This fixture is RDM compatible, supports 1 or 3 DMX channel modes, and includes PowerTwist and 3-Pin XLR input/output for reliable connectivity. Supplied with barn doors and fitted with a temperature-controlled fan, the Junior 150 Fresnel is both efficient and quiet — ideal for theatre, studio, or fixed installations.

- 1 x 150W warm white COB LED (2,900K)
- Beam angle: 40°
- CRI Ra: 90
- Refresh rate: 11.8kHz
- DMX channels: 1 or 3 selectable
- RDM (Remote Device Management)
- Manual and primary/secondary modes
- 0-100% dimming
- Dimming curves: LED and halogen profiles (Linear, square law, inverse square law, S-curve)
- 4 button menu with LED display
- PowerTwist input
- 3-Pin XLR input/output
- Barn doors included
- Temperature controlled fan



Specifications	Junior 150 Fresnel WW
Power consumption	140W
Power supply	100~240V, 50/60Hz
Fuse	T3A 250V
Dimensions	265 x 185 x 152mm
Weight	2.9kg
Order code	EQLED454





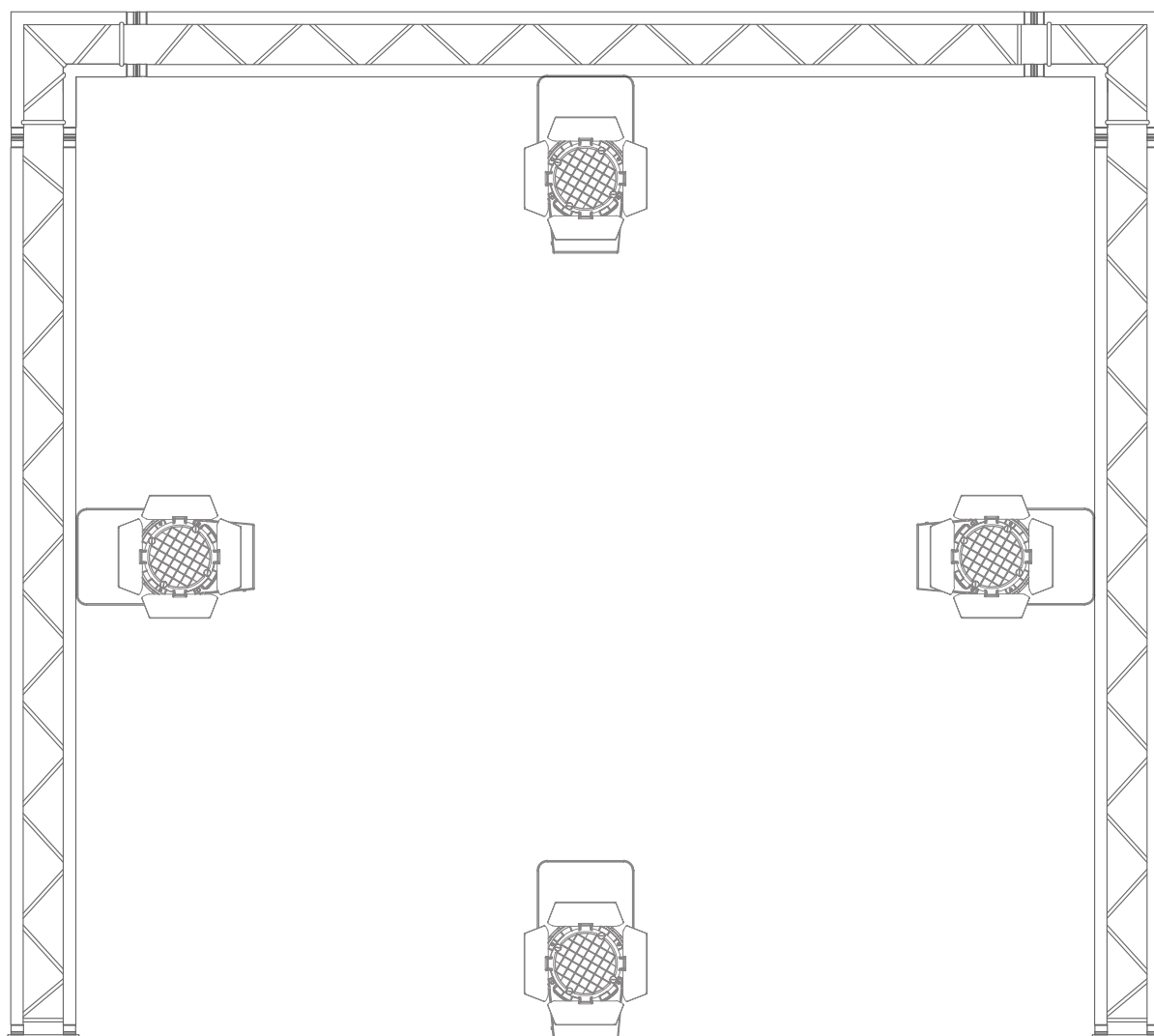
01 - 3-Pin DMX input
 02 - 3-Pin DMX output
 03 - Power input
 04 - Function buttons

05 - LED Display
 06 - Hanging bracket
 07 - Hanging bracket adjustment knob
 08 - Barn door

In the box: **1 x fixture,**
1 x barn door,
1 x power cable

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.

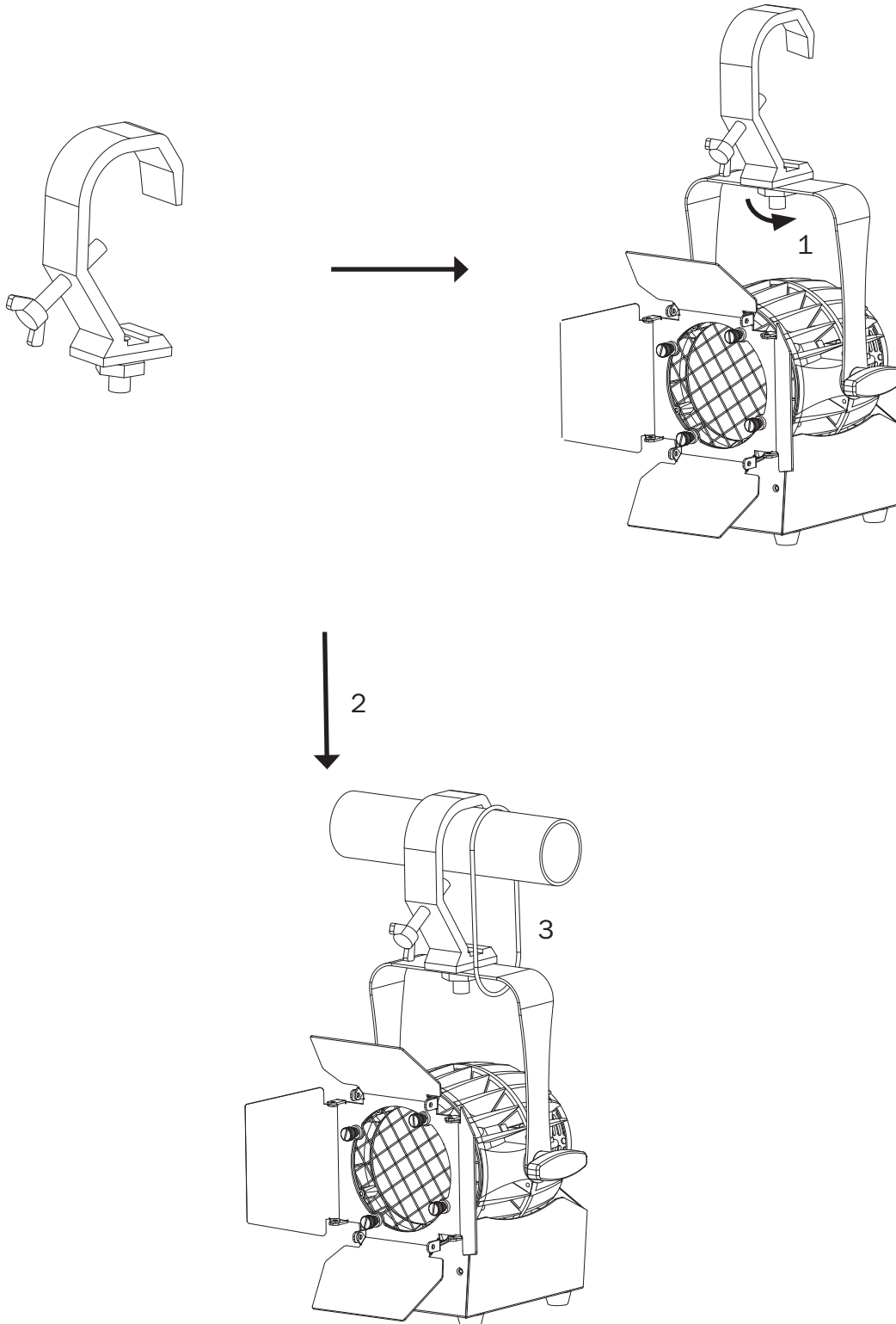
Overhead installation requires experience and qualifications to calculate working load limits, the material being used at the installation area and periodic safety inspections of the fixture and installation material. If you do not have the relevant experience and/or qualifications please do not attempt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

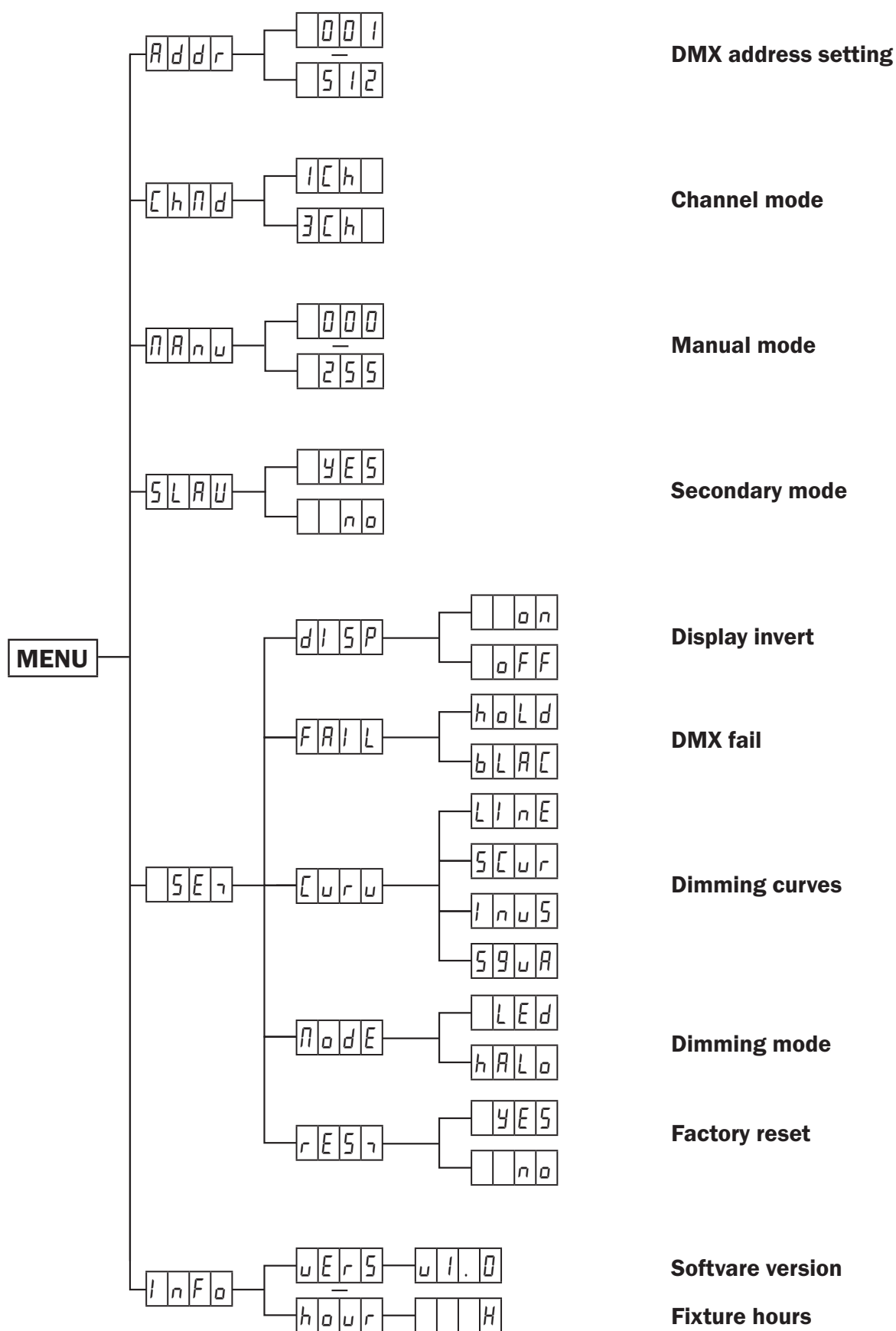


The Equinox Junior 150 Fresnel WW can be operated in a number of mounting positions as shown in the diagram above, hanging upside-down from the ceiling or truss, mounting sideways on truss or stood upright on a flat level surface. Always use a safety wire as an extra safety precaution to prevent damage/injury 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 fixtures bracket with a bolt and lock nut through one of the mounting holes.
2. Mount the fixture onto your truss system via the clamp and tighten to ensure secure.
3. Pull the safety cable through the fixture bracket 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 on the side 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.

To access the DMX channel mode, press the **"MENU"** button on the side of the unit to show *Chn* on the LED display. Now press the **"ENTER"** button and use the **"UP"** and **"DOWN"** buttons to choose one of the 1 or 3 DMX channel modes. Press the **"ENTER"** button to confirm the setting.

To exit out of any of the above options, press the **"MENU"** button.

1 channel mode:

Channel	Value	Function
1	000-255	Master dimmer (0-100%)

3 channel mode:

Channel	Value	Function	
1	000-255	Master dimmer (0-100%)	
2	000-005	No function	Dimming mode
	006-127	LED dimming mode	
	128-255	Halogen dimming mode	
3	006-063	Linear Dimmer Curve	Dimming curves
	064-127	Square Linear Dimmer Curve	
	128-191	Inverse Sq. Linear Dimmer Curve	
	192-255	S-Curve Dimmer Curve	

Manual dimming mode:

To access the manual dimming mode, press the **"MENU"** button on the side 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 from *000* - *255*. Press the **"ENTER"** button to confirm the setting.

(000 = LED off, 255 = LED at full brightness).

To exit out of any of the above options, press the **"MENU"** button.

Primary/secondary mode:

To set the primary unit, press the **"MENU"** button and use the **"UP"** and **"DOWN"** buttons on the side of the unit to set the unit in manual mode *MANU* 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 side of the unit to show *SLAVE* on the LED display. Press the **"ENTER"** button to confirm the setting. The unit will now run in sequence with the primary unit.

To exit out of any of the above options, press the **"MENU"** button.

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

Display invert setting:

To access the display invert setting, press the “**MENU**” button and use the “**UP**” and “**DOWN**” buttons on the side of the unit to show SE on the LED display. Now press the “**ENTER**” button and use the “**UP**” and “**DOWN**” buttons to show dI SP . Press the “**ENTER**” button and use the “**UP**” and “**DOWN**” buttons to choose between on or off . Press the “**ENTER**” button to confirm the setting.

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

DMX fail setting:

To access the DMX fail setting, press the “**MENU**” button and use the “**UP**” and “**DOWN**” buttons on the side of the unit to show SE on the LED display. Now press the “**ENTER**” button and use the “**UP**” and “**DOWN**” buttons to show FAIL . Press the “**ENTER**” button and use the “**UP**” and “**DOWN**” buttons to choose between hold (hold last DMX command) or black (blackout). Press the “**ENTER**” button to confirm the setting.

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

Dimming curve setting:

To access the dimming curve setting, press the “**MENU**” button and use the “**UP**” and “**DOWN**” buttons on the side of the unit to show SE on the LED display. Now press the “**ENTER**” button and use the “**UP**” and “**DOWN**” buttons to show CUR . Press the “**ENTER**” button and use the “**UP**” and “**DOWN**” buttons to choose between lin (linear), S (s-curve), inv (inverse square-law) or sq (square-law). Press the “**ENTER**” button to confirm the setting.

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

Dimming mode setting:

To access the dimming mode setting, press the “**MENU**” button and use the “**UP**” and “**DOWN**” buttons on the side of the unit to show SE on the LED display. Now press the “**ENTER**” button and use the “**UP**” and “**DOWN**” buttons to show MODE . Press the “**ENTER**” button and use the “**UP**” and “**DOWN**” buttons to choose between LED (LED mode) or HAL (halogen). Press the “**ENTER**” button to confirm the setting.

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

Factory reset:

To access the factory reset, press the “**MENU**” button and use the “**UP**” and “**DOWN**” buttons on the side of the unit to show SE on the LED display. Now press the “**ENTER**” button and use the “**UP**” and “**DOWN**” buttons to show RESET . Press the “**ENTER**” button and use the “**UP**” and “**DOWN**” buttons to choose between YES or NO . Press the “**ENTER**” button to confirm the setting.

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

Version information:

To access the version information, press the “**MENU**” button on the side of the unit to show $I_{nF_{\square}}$ on the LED display. Now press the “**ENTER**” button and use the “**UP**” and “**DOWN**” buttons to show $uEr5$. Press the “**ENTER**” button and the version number will be displayed.

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

Fixture hours information:

To access the fixture hours information, press the “**MENU**” button on the side of the unit to show $I_{nF_{\square}}$ on the LED display. Now press the “**ENTER**” button and use the “**UP**” and “**DOWN**” buttons to show $hour$. Press the “**ENTER**” button and the fixture hours will be displayed.

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

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 side of the unit. Your unit requires a standard 3-pin XLR connector for data input/output, see images below.



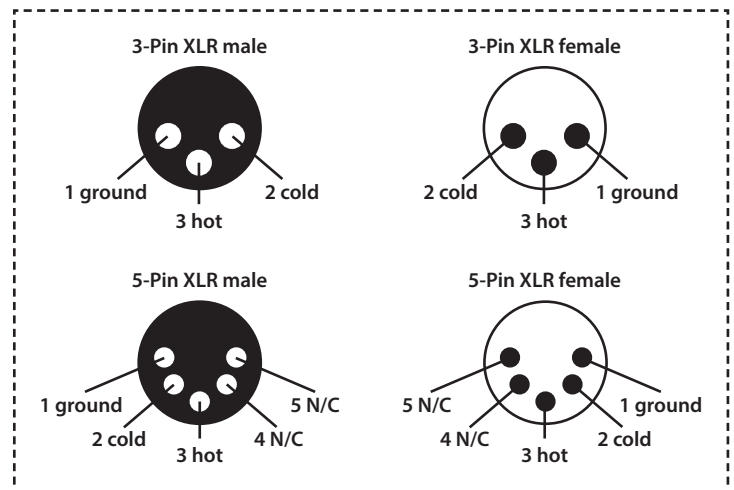
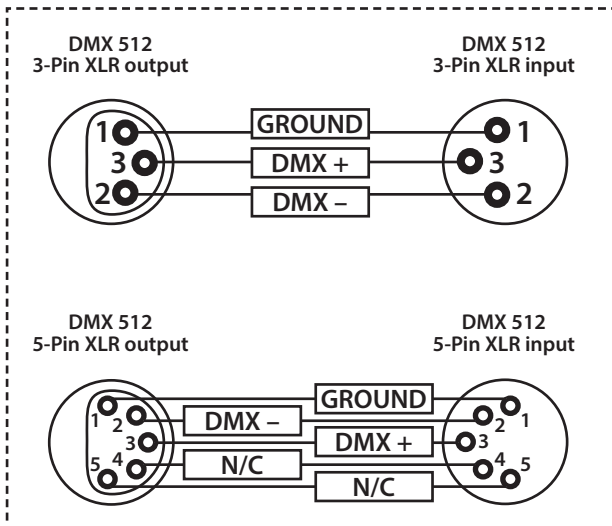
Further DMX cables can be purchased from all good sound and lighting suppliers or Prolight Concepts dealers.
Please quote: 3-Pin: **CABL10 – 2m** **CABL11 – 5m** **CABL12 – 10m**

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.

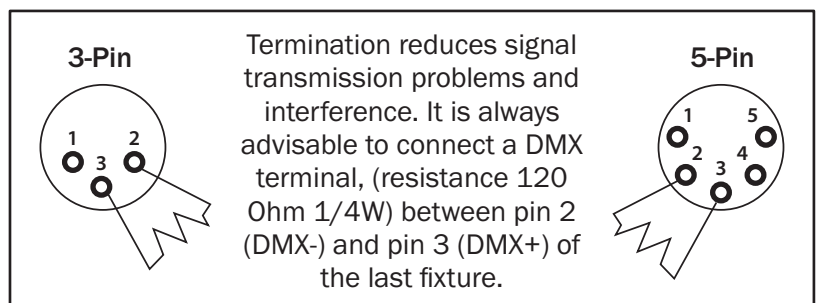
Pin Configuration	
3-Pin	5-Pin
Pin 1 - Ground	
Pin 2 - Negative	
Pin 3 - Positive	
-	Pin 4 - N/C
-	Pin 5 - N/C



Line termination:

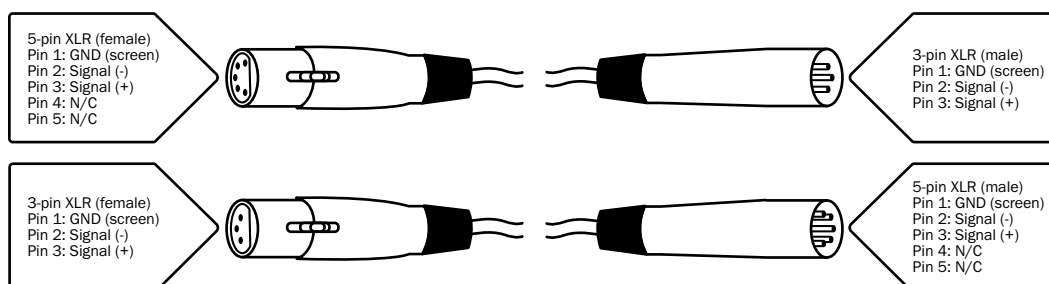
When longer runs of cable are used, you may need to use a terminator on the last unit to avoid erratic behaviour.

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.

