

Fusion 120TW

User Manual

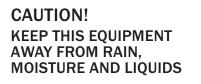


Order code: EQLED449

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! 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.

Please note: These fixtures are intended for stage lighting and entertainment applications only, and are not intended for extended periods of use, including but not limited to house-light, industrial or architectural applications and should only be operated with short duty cycles.

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Fusion 120TW

The Equinox Fusion 120TW is a compact yet powerful 120W LED moving head packed full of features. A 120mm fresnel lens and high CRI provide superb colour rendering, whilst an RGB LED ring changes colour and chases, producing mesmerising eye-candy effects. Also onboard are a host of ring colour macros/programs and colour temperature presets along with 4 dimming curves. An omega clamp is supplied for quick and easy installation, whilst the PowerTwist TR1 and 3-Pin DMX inputs/outputs allow for a problem-free connection.

- 1 x 120W cool white (6,300K) and warm white (2,700K) COB LED (CW/WW)
- 26 x tri-colour 5050 SMD LEDs (RGB)
- Beam angle: 18°
- 17,952 Lux @ 2m (full on)
- CRI: 90
- Refresh rate: 20kHz
- DMX channels: 2/11/15 or 21 selectable
- Auto, sound active, manual control and master/slave modes
- Built-in ring colour macros and programs

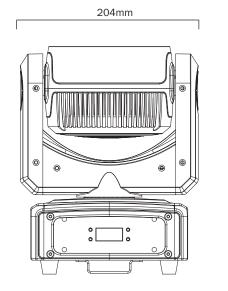
- Forward facing show modes
- Pan/tilt auto correction
- 16-Bit pan/tilt positioning
- Pan: 540°, Tilt: 220°
- 0 100% dimming
- 4 dimming curves: Linear, square law, inverse square law and S-curve
- Variable strobe
- Quick release omega clamp included

292mm

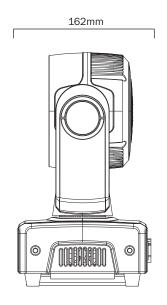
- 4 button menu with LED display
- PowerTwist TR1 input/output
- 3-Pin XLR input/output
- Fan cooled

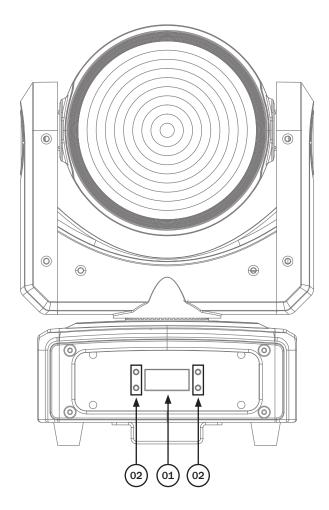


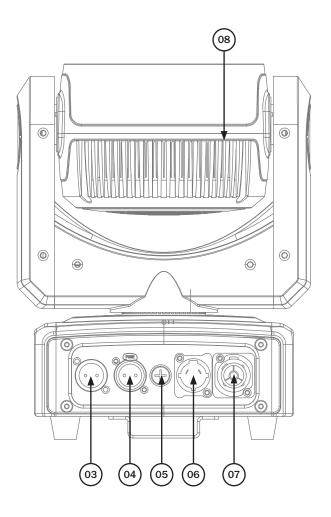
| 18° - Lu FULL C CW WW | | 17952 12709 7740 | 7979 5648 3440 | 4488 3177 1935 | 2872 2033 1238 |
|--------------------------------|----|------------------------|----------------------|----------------------|----------------------|
| | | | | | |
| | | | | 18 | 3° |
| | | | | / | |
| | | | | | |
| 0m | 1m | 2m | 3m | 4m | 5m |



| Specifications | |
|-------------------|-------------------|
| Power consumption | 120W |
| Power supply | 100~240V, 50/60Hz |
| Fuse | F4A 250V |
| Dimensions | 292 x 204 x 162mm |
| Weight | 4kg |
| Order codes | EQLED449 |







01 - LED display

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

05 - Fuse F4A 250V

- 06 PowerTwist TR1 input
- 07 PowerTwist TR1 output
- 08 Fan

In the box: **1** x fixture, **1** x power cable, **1** x omega clamp

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Fusion 120TW User Manual 4

Installation:

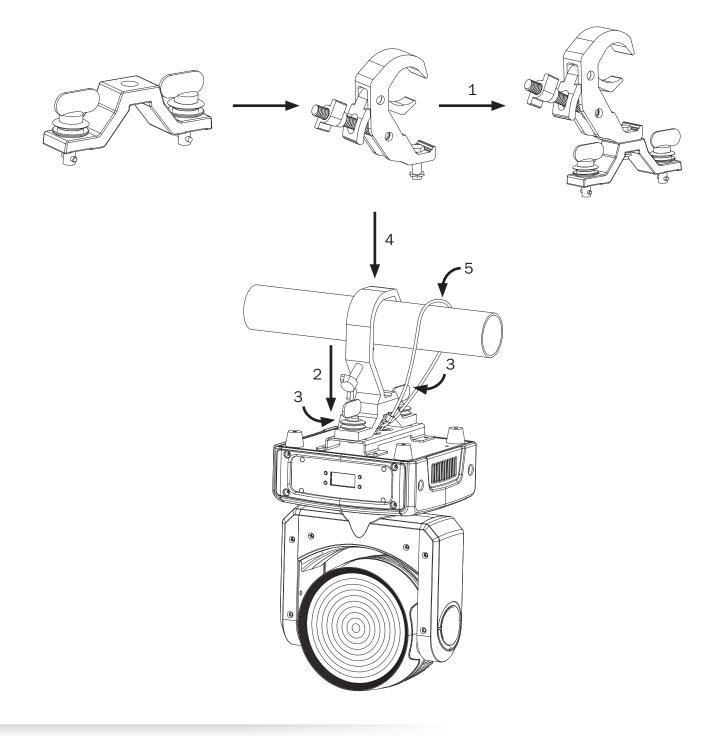
1. Fasten each clamp to the omega clamps with a bolt and lock nut through the hole in the omega clamp.

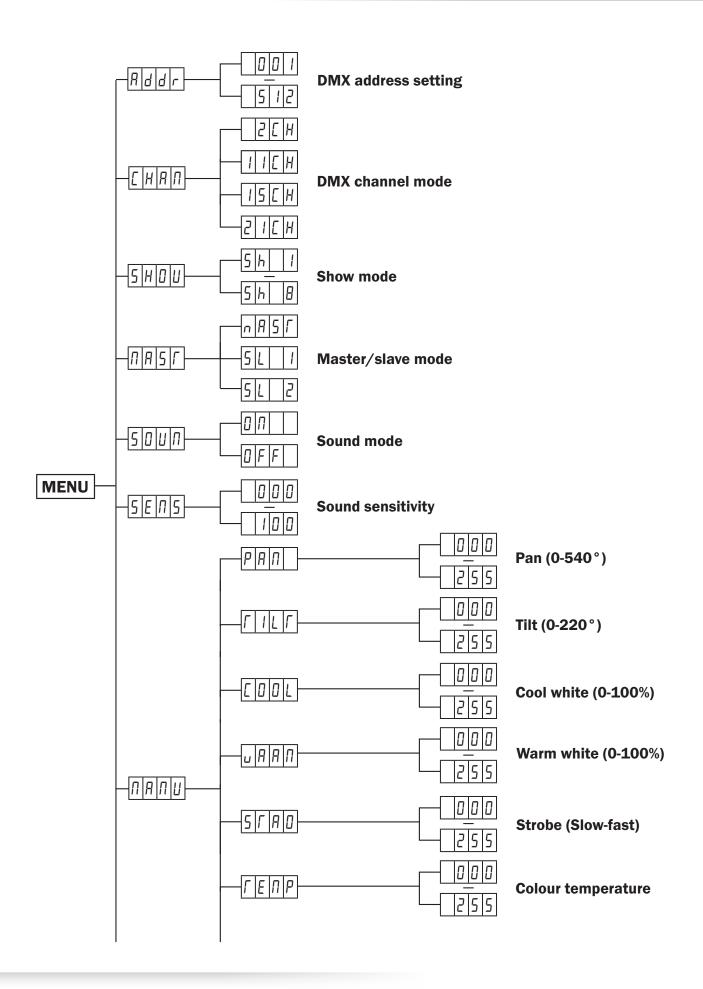
2. Align and insert the omega clamp quick-lock fasteners with the respective holes on the bottom of the unit.

3. Tighten both locking fasteners clockwise on each omega clamp ensuring they're fully secure.

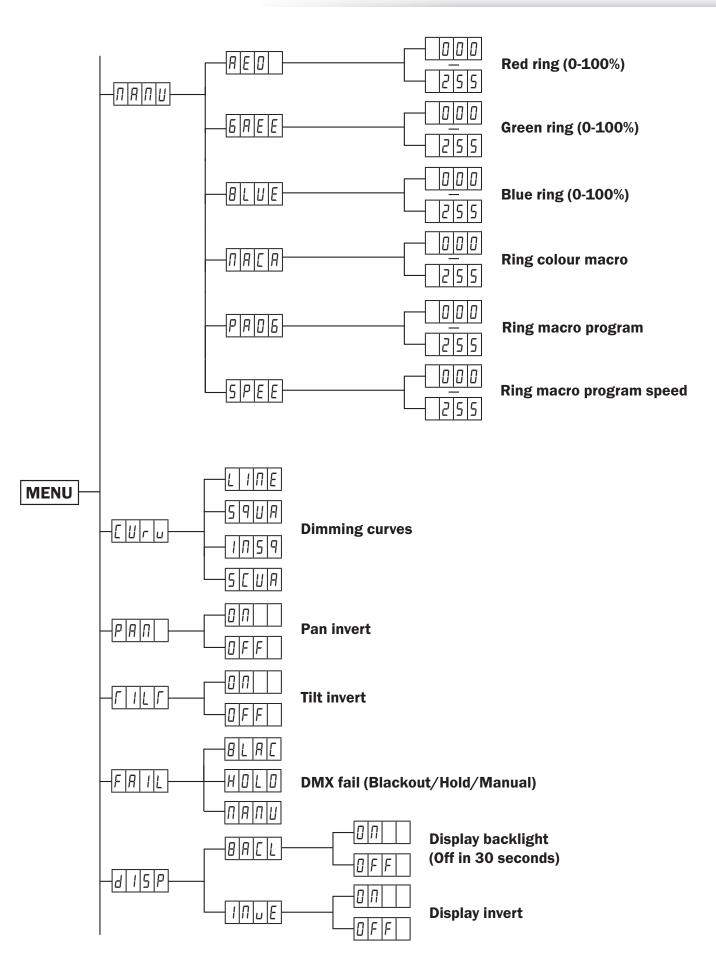
4. Mount the fixture onto your truss system via the clamps and tighten to ensure that it's secure.

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.

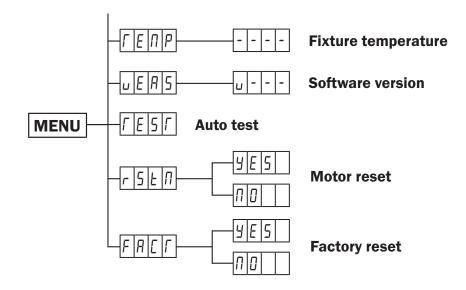




Operating instructions



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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 front of the unit to show A d d r 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 "**UP**" button on the front of the unit to show **EHAN** on the LED display. Now press the "**ENTER**" button and use the "**UP**" and "**DOWN**" buttons to choose one of the 2, 11, 15 or 21 DMX channel modes. Press the "**ENTER**" button to confirm the setting. To exit out of any of the above options, press the "**MENU**" button.

| Channel | Value | Function |
|---------|---------|------------------------------|
| | 000-015 | No function |
| | 016-045 | Show 1 |
| | 046-075 | Show 2 |
| | 076-105 | Show 3 |
| CH1 | 106-135 | Show 4 |
| | 136-165 | Show 5 |
| | 166-195 | Show 6 |
| | 196-225 | Show 7 (Forward Facing) |
| | 226-255 | Show 8 (Forward Facing) |
| CH2 | 000-255 | Sound sensitivity (low-high) |

| Channel | Value | Function |
|---------|---------|----------------------------|
| CH1 | 000-255 | Pan (0-540°) |
| CH2 | 000-255 | Tilt (0-220°) |
| CH3 | 000-255 | Pan/Tilt Speed (fast-slow) |
| CH4 | 000-255 | Master Dimmer (0-100%) |
| | 000-009 | No function |
| CH5 | 010-255 | Strobe (slow-fast) |
| | 000 | No function |
| | 001-027 | 2800K |
| | 028-055 | 3100K |
| | 056-083 | 3400K |
| | 084-111 | 3700K |
| CH6 | 112-139 | 4000K |
| | 140-167 | 4300K |
| | 168-195 | 4600K |
| | 196-223 | 4900K |
| | 224-251 | 5200K |
| | 252-255 | 5800K |
| | 000-009 | No function |
| | 010-021 | R255 G255 B255 |
| | 022-033 | R255 G000 B000 |
| | 034-045 | R000 G255 B000 |
| | 046-057 | R000 G000 B255 |
| | 058-069 | R135 G206 B235 |
| | 070-081 | R178 G034 B034 |
| | 082-093 | R255 G255 B000 |
| | 094-105 | R160 G032 B240 |
| | 106-117 | R255 G097 B000 |
| CH7 | 118-129 | R124 G252 B000 |
| | 130-141 | R250 G128 B114 |
| | 142-153 | R128 G042 B042 |
| | 154-165 | R255 G215 B000 |
| | 166-177 | R156 G102 B031 |
| | 178-189 | R138 G043 B226 |
| | 190-201 | R160 G102 B211 |
| | 202-213 | R100 G100 B255 |
| | 214-225 | R255 G100 B100 |
| | 226-237 | R100 G255 B100 |
| | 238-255 | R255 G050 B050 |

| | i | 1 | |
|---------|---------|--|--|
| Channel | Value | Function | |
| | 000-009 | No function | |
| | 010-021 | Macro 1 (Red chase) | |
| | 022-033 | Macro 2 (Green chase) | |
| | 034-045 | Macro 3 (Blue chase) | |
| | 046-057 | Macro 4 (White chase) | |
| | 058-069 | Macro 5 (Cyan chase) | |
| | 070-081 | Macro 6 (Magenta chase) | |
| | 082-093 | Macro 7 (Yellow chase) | |
| | 094-105 | Macro 8 (Red with green chase) | |
| | 106-117 | Macro 9 (Green with blue chase) | |
| | 118-129 | Macro 10 (Blue with red chase) | |
| | 130-141 | Macro 11 (Red with white chase) | |
| CH8 | 142-153 | Macro 12 (Green with purple chase) | |
| | 154-165 | Macro 13 (Yellow with blue chase) | |
| | 166-177 | Macro 14 (Red, green, blue chase) | |
| | 178-189 | Macro 15 (Red, green, blue, white, cyan, magenta, yellow chase) | |
| | 190-201 | Macro 16 (Red, blue, cyan, yellow, green, white, magenta chase) (7 segments) | |
| | 202-213 | Macro 17 (Red, green, blue, white, cyan, magenta, yellow chase) | |
| | 214-225 | Macro 18 (Colour change) | |
| | 226-237 | Macro 19 (Colour fade) | |
| | 238-255 | Macro 20 (Rainbow chase) | |
| | 000-124 | Clockwise (fast-slow) | |
| CH9 | 125-130 | Macro stop | |
| | 131-255 | Anti-clockwise (slow-fast) | |
| CH10 | 000-015 | No function | |
| | 016-045 | Show 1 | |
| | 046-075 | Show 2 | |
| | 076-105 | Show 3 | |
| | 106-135 | Show 4 | |
| | 136-165 | Show 5 | |
| | 166-195 | Show 6 | |
| | 196-225 | Show 7 (Forward Facing) | |
| | 226-225 | Show 8 (Forward Facing) | |
| CH11 | 000-255 | Sound sensitivity (low-high) | |
| | • | | |

Operating instructions

| Channel | Value | Function | |
|--|---------|----------------------------|------|
| CH1 | 000-255 | Pan (0-540°) | |
| CH2 | 000-255 | Pan Fine | |
| СНЗ | 000-255 | Tilt (0-220°) | |
| CH4 | 000-255 | Tilt Fine | |
| CH5 | 000-255 | Pan/Tilt Speed (fast-slow) | |
| CH6 | 000-255 | Master Dimmer (0-100%) | |
| | 000-009 | No function | |
| CH7 | 010-255 | Strobe (slow-fast) | |
| CH8 | 000-255 | Cool White Dimmer (0-100%) | |
| СН9 | 000-255 | Warm White Dimmer (0-100%) | |
| CH10 | 000-255 | Master dimmer (0-100%) | |
| | 000 | No function | |
| CH11 | 001-255 | Strobe (slow-fast) | Ding |
| CH12 | 000-255 | Red dimmer (0-100%) | |
| CH13 | 000-255 | Green dimmer (0-100%) | |
| CH14 | 000-255 | Blue dimmer (0-100%) | |
| | 000-030 | No function | |
| | 030-054 | Dimming curve set via menu | |
| 055-079 | | Linear | |
| 080-104 | | Square Law | |
| CH15 | 105-129 | Inv Square Law | |
| | 130-154 | S-Curve | |
| 155-204No function205-229Reset (hold for 5s) | | No function | |
| | | Reset (hold for 5s) | |
| | 230-255 | 255 No function | |

Operating instructions

| Channel | Value | Function | | |
|------------------------|---------|----------------------------|------|--|
| CH1 | 000-255 | Pan (0-540°) | | |
| CH2 | 000-255 | Pan Fine | | |
| СНЗ | 000-255 | Tilt (0-220°) | | |
| CH4 | 000-255 | Tilt Fine | | |
| CH5 | 000-255 | Pan/Tilt Speed (fast-slow) | | |
| CH6 | 000-255 | Master Dimmer (0-100%) | | |
| 0.1.7 | 000-009 | No function | | |
| CH7 | 010-255 | Strobe (slow-fast) | | |
| CH8 | 000-255 | Cool White Dimmer (0-100%) | | |
| СН9 | 000-255 | Warm White Dimmer (0-100%) |) | |
| CH10 | 000-255 | Master Dimmer (0-100%) | | |
| | 000 | No function | 1 | |
| CH11 | 001-255 | Strobe (slow-fast) | | |
| CH12 | 000-255 | Red dimmer (0-100%) | Ring | |
| CH13 | 000-255 | Green dimmer (0-100%) | 1 | |
| CH14 | 000-255 | Blue dimmer (0-100%) | | |
| | 000 | No function | · | |
| | 001-027 | 2800K | | |
| | 028-055 | 3100К | | |
| | 056-083 | 3400K | | |
| | 084-111 | 3700K | | |
| CH15 | 112-139 | 4000K | | |
| | 140-167 | 4300К | | |
| | 168-195 | 4600K | | |
| | 196-223 | 4900K | | |
| | 224-251 | 5200K | | |
| | 252-255 | 5800K | | |
| | 000-009 | No function | | |
| 010-021 R255 G255 B255 | | R255 G255 B255 | | |
| | 022-033 | R255 G000 B000 | | |
| CH16 | 034-045 | R000 G255 B000 | | |
| | 046-057 | R000 G000 B255 | | |
| | 058-069 | R135 G206 B235 | | |
| | 070-081 | R178 G034 B034 | | |
| | 082-093 | R255 G255 B000 | | |
| | 094-105 | R160 G032 B240 | | |
| | 106-117 | R255 G097 B000 | | |
| 118-129 R124 G252 B000 | | | | |

21 channel mode (cont.)

| Channel | Value | Function | |
|---------|---------|--|--|
| | 130-141 | R250 G128 B114 | |
| | 142-153 | R128 G042 B042 | |
| | 154-165 | R255 G215 B000 | |
| | 166-177 | R156 G102 B031 | |
| CH16 | 178-189 | R138 G043 B226 | |
| | 190-201 | R160 G102 B211 | |
| | 202-213 | R100 G100 B255 | |
| | 214-225 | R255 G100 B100 | |
| | 226-237 | R100 G255 B100 | |
| | 238-255 | R255 G050 B050 | |
| | 000-009 | No function | |
| | 010-021 | Macro 1 (Red chase) | |
| | 022-033 | Macro 2 (Green chase) | |
| | 034-045 | Macro 3 (Blue chase) | |
| | 046-057 | Macro 4 (White chase) | |
| | 058-069 | Macro 5 (Cyan chase) | |
| | 070-081 | Macro 6 (Magenta chase) | |
| | 082-093 | Macro 7 (Yellow chase) | |
| | 094-105 | Macro 8 (Red with green chase) | |
| | 106-117 | Macro 9 (Green with blue chase) | |
| | 118-129 | Macro 10 (Blue with red chase) | |
| | 130-141 | Macro 11 (Red with white chase) | |
| CH17 | 142-153 | Macro 12 (Green with purple chase) | |
| | 154-165 | Macro 13 (Yellow with blue chase) | |
| | 166-177 | Macro 14 (Red, green, blue chase) | |
| | 178-189 | Macro 15 (Red, green, blue, white, cyan, magenta, yellow chase) | |
| | 190-201 | Macro 16 (Red, blue, cyan, yellow, green, white, magenta chase) (7 segments) | |
| | 202-213 | Macro 17 (Red, green, blue, white, cyan, magenta, yellow chase) | |
| | 214-225 | Macro 18 (Colour change) | |
| | 226-237 | Macro 19 (Colour fade) | |
| | 238-255 | Macro 20 (Rainbow chase) | |

| Channel | Value | Function |
|---------|---------|------------------------------|
| | 000-124 | Clockwise (fast-slow) |
| CH18 | 125-130 | Macro stop |
| | 131-255 | Anti-clockwise (slow-fast) |
| | 000-015 | No function |
| | 016-045 | Show 1 |
| | 046-075 | Show 2 |
| | 076-105 | Show 3 |
| CH19 | 106-135 | Show 4 |
| | 136-165 | Show 5 |
| | 166-195 | Show 6 |
| | 196-225 | Show 7 (Forward Facing) |
| | 226-255 | Show 8 (Forward Facing) |
| CH20 | 000-255 | Sound sensitivity (low-high) |
| | 000-030 | No function |
| | 030-054 | Dimming curve set via menu |
| | 055-079 | Linear |
| | 080-104 | Square Law |
| CH21 | 105-129 | Inv Square Law |
| | 130-154 | S-Curve |
| | 155-204 | No function |
| | 205-229 | Reset (hold for 5s) |
| | 230-255 | No function |

Show mode:

To access the show modes, press the "**MENU**" button on the front of the unit to show 5HDU on the LED display. Now press the "**ENTER**" button and use the "**UP**" and "**DOWN**" buttons to choose between 5H $I \sim 5H$ B. Press the "**ENTER**" button to confirm the setting.

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

5H 1-5H 6-Show 1-6

5H 7 – Show 7 (forward facing)

5H B – Show 8 (forward facing)

Master/slave mode:

To set the master unit, press the "**MENU**" button on the front of the master unit to show $\Pi R \subseteq \Gamma$ on the LED display. Now press the "**ENTER**" button and use the "**UP**" and "**DOWN**" buttons to choose $\Pi R \subseteq \Gamma$. Press the "**ENTER**" button to confirm the setting.

To set the other units in slave mode, press the "**MENU**" button on the front of the unit to show $\Pi R S \Gamma$ on the LED display. Now press the "**ENTER**" button and use the "**UP**" and "**DOWN**" buttons to choose either SL *I* or SL *2*. Press the "**ENTER**" button to confirm the setting. The unit will now run in sequence with the master 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 master unit.

Sound/sound sensitivity:

To turn the sound mode on or off, press the "**MENU**" button on the front of the unit to show $5 \square \square \Pi$ on the LED display. Now press the "**ENTER**" button and use the "**UP**" and "**DOWN**" buttons to choose between $\Box n$ or $\Box FF$. Press the "**ENTER**" button to confirm the setting.

To adjust the sound sensitivity, press the "**MENU**" button on the front of the unit to show $5E\Pi 5$ on the LED display. Now press the "**ENTER**" button and use the "**UP**" and "**DOWN**" buttons to choose between $\Box\Box\Box \sim I\Box\Box$. Value: 000 - 100 (000 = low, 100 = high)

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

Manual mode:

To access the manual modes, press the "**MENU**" button on the front of the unit to show $\Pi \Pi \Pi$ on the LED display. Now press the "**ENTER**" button and use the "**UP**" and "**DOWN**" buttons to choose $P\Pi \Pi$ (**Pan**), $\Gamma I \bot \Gamma$ (**Tilt**), $\Gamma \square \Pi \bot$ (**Cool white**), $\Box \Pi \Pi \Pi$ (**Warm white**), $S\Gamma \Pi \square$ (**Strobe**), $\Gamma \Pi \Pi P$ (**Colour temperature**), $\Pi \Pi \square$ (**Red ring**), $\Box \Pi \Pi \Pi$ (**Green ring**), $\Pi \bot \square \Pi$ (**Blue ring**), $\Pi \Pi \Pi \Pi$ (**Ring colour macro**), $P\Pi \square \Pi$ (**Ring macro program**), or $SP \Pi \Pi$ (**Ring macro program speed**). Now press the "**ENTER**" button and use the "**UP**" and "**DOWN**" buttons to choose between $\square \square \square - 255$ Press the "**ENTER**" button to confirm the setting.

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

Dimming curves:

To access the dimming curves, press the "**MENU**" button on the front of the unit to show [U - u] on the LED display. Now press the "**ENTER**" button and use the "**UP**" and "**DOWN**" buttons to choose $U \cap E$ (**Linear**), $5 \subseteq U \cap ($ **Securve**), $U \cap S \cap ($ **Inverse square law**), or $5 \cap U \cap ($ **Square Law**). Press the "**ENTER**" button to confirm the setting.

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

Pan invert setting:

To access the pan invert setting, press the "**MENU**" button on the front of the unit to show $PA\Pi$ on the LED display. Now press the "**ENTER**" button and use the "**UP**" and "**DOWN**" buttons to choose between $\Box n$ or $\Box FF$. Press the "**ENTER**" button to confirm the setting.

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

Tilt invert setting:

To access the tilt invert setting, press the "**MENU**" button on the front of the unit to show $\Gamma I L \Gamma$ on the LED display. Now press the "**ENTER**" button and use the "**UP**" and "**DOWN**" buttons to choose between $\Box n$ or $\Box FF$. Press the "**ENTER**" button to confirm the setting.

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

DMX fail:

To access the DMX fail setting, press the "**MENU**" button on the front of the unit to show FA IL on the LED display. Now press the "**ENTER**" button and use the "**UP**" and "**DOWN**" buttons to choose BLAE (**Blackout**), HBLB (**Hold**) or $\Pi R\Pi B$ (**Manual**) Press the "**ENTER**" button to confirm the setting.

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

Display settings:

To access the display settings, press the "**MENU**" button on the front of the unit to show dI 5P on the LED display. Now press the "**ENTER**" button and use the "**UP**" and "**DOWN**" buttons to choose between BREL (**Backlight off in 30 seconds**) or $I \Pi_{U}E$ (**Display invert**). Press the "**ENTER**" button then choose $_FF$ or $_P$. Then press the "**ENTER**" button to confirm the setting.

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

Temperature:

To view the fixture temperature, press the "**MENU**" button on the front of the unit to show $\Gamma E \Pi P$ on the LED display. Now press the "**ENTER**" button to view the current temperature in degrees celcius.

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

Software version:

To view the fixtures software version, press the "**MENU**" button on the front of the unit to show $\Box ERS$ on the LED display. Now press the "**ENTER**" button to view the current software version.

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

Test mode:

To access the test mode, press the "**MENU**" button on the front of the unit to show $\Gamma E 5\Gamma$ on the LED display. Press the "**ENTER**" button to run the test mode.

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

Motor reset:

To reset the motors, press the "**MENU**" button on the front of the unit to show $r5E\Pi$ on the LED display. Press the "**ENTER**" button then choose 425 or n_{\Box} . Then press the "**ENTER**" button to confirm the setting.

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

Reset factory settings:

To reset the units factory settings, press the "**MENU**" button on the front of the unit to show FREF on the LED display. Now press the "**ENTER**" button and use the "**UP**" and "**DOWN**" buttons to choose between $\exists PS$ (reset) or $\neg \Box$. Press the "**ENTER**" button to confirm the setting. 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 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 a standard 3-pin XLR connector for data input/output, see images below.



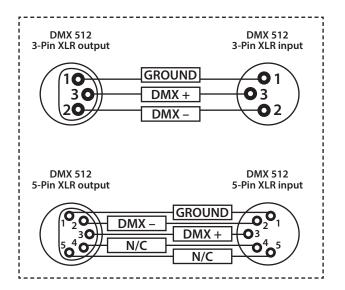
Further DMX cables can be purchased from all good sound and lighting suppliers or Prolight Concepts dealers.Please quote:3-Pin:CABL10 - 2mCABL11 - 5mCABL12 - 10m

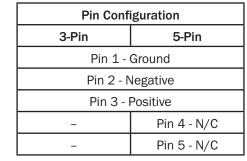
Also remember that DMX cable must be daisy chained and cannot be split.

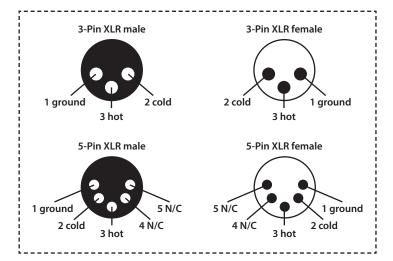
www.prolight.co.uk

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.



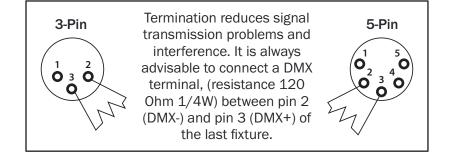




Line termination:

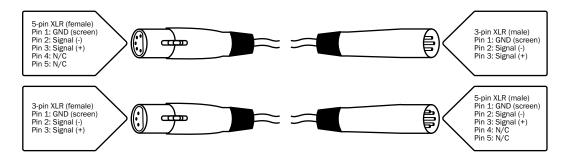
When longer runs of cable are used, you may need to use a terminator on the last unit to avoid erratic behaviour.

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:

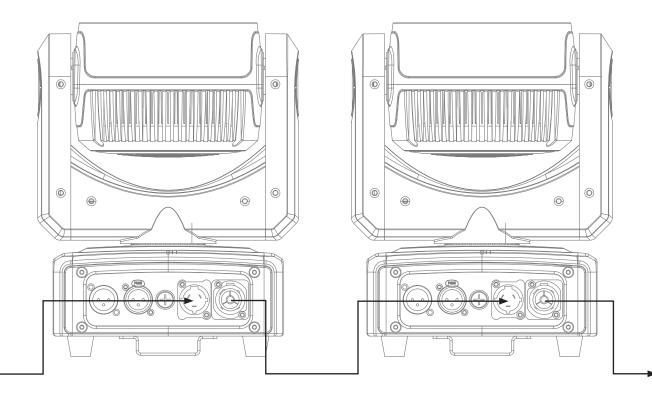
Some manufactures use 5-pin XLR connectors for data transmission in place of 3-pin. 5-pin XLR fixtures may be implemented in a 3-pin XLR DMX line. When inserting standard 5-pin XLR connectors in to a 3-pin line a cable adaptor must be used. The diagram below details the correct cable conversion.



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 12 fixtures @ 240V or 6 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 Fusion 120TW 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.



WEEE notice



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.