

LEDJ

Spectra Flood 18HEX10 Exterior Fixture

User Manual



Order code: LEDJ556

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.
- 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 your product fails to function correctly, stop use immediately. Pack the unit securely (preferably in the original packing material), and return it to your Prolight 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.

Spectra Flood 18HEX10 Exterior Fixture



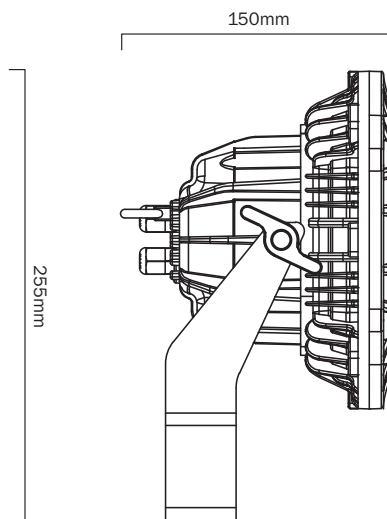
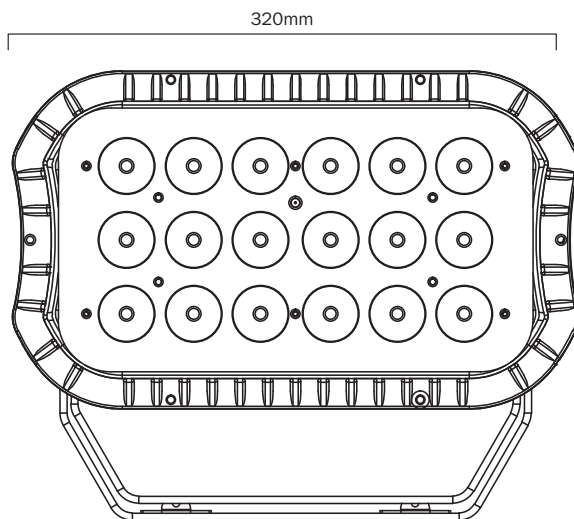
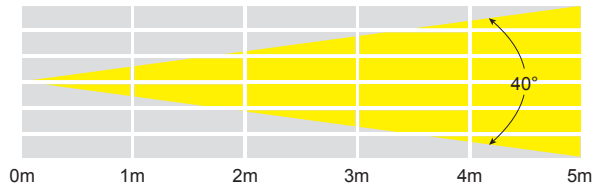
The exterior Spectra Flood 18HEX10 features 18 x 10W six-colour LEDs, delivering a smooth wash of colour, ranging from intense, rich saturated hues through to pastel shades. Controllable via the on-board 4 button LED menu system for auto, static colour or master/slave modes, with the option of DMX control for larger installations. Signage and facade features can be illuminated along with landscapes, and the simple daisy chain connection of power and DMX means that installation time and cost is reduced. The heavy-duty alloy enclosure is convection cooled for silent running and features Hydralock power and DMX inputs and outputs.

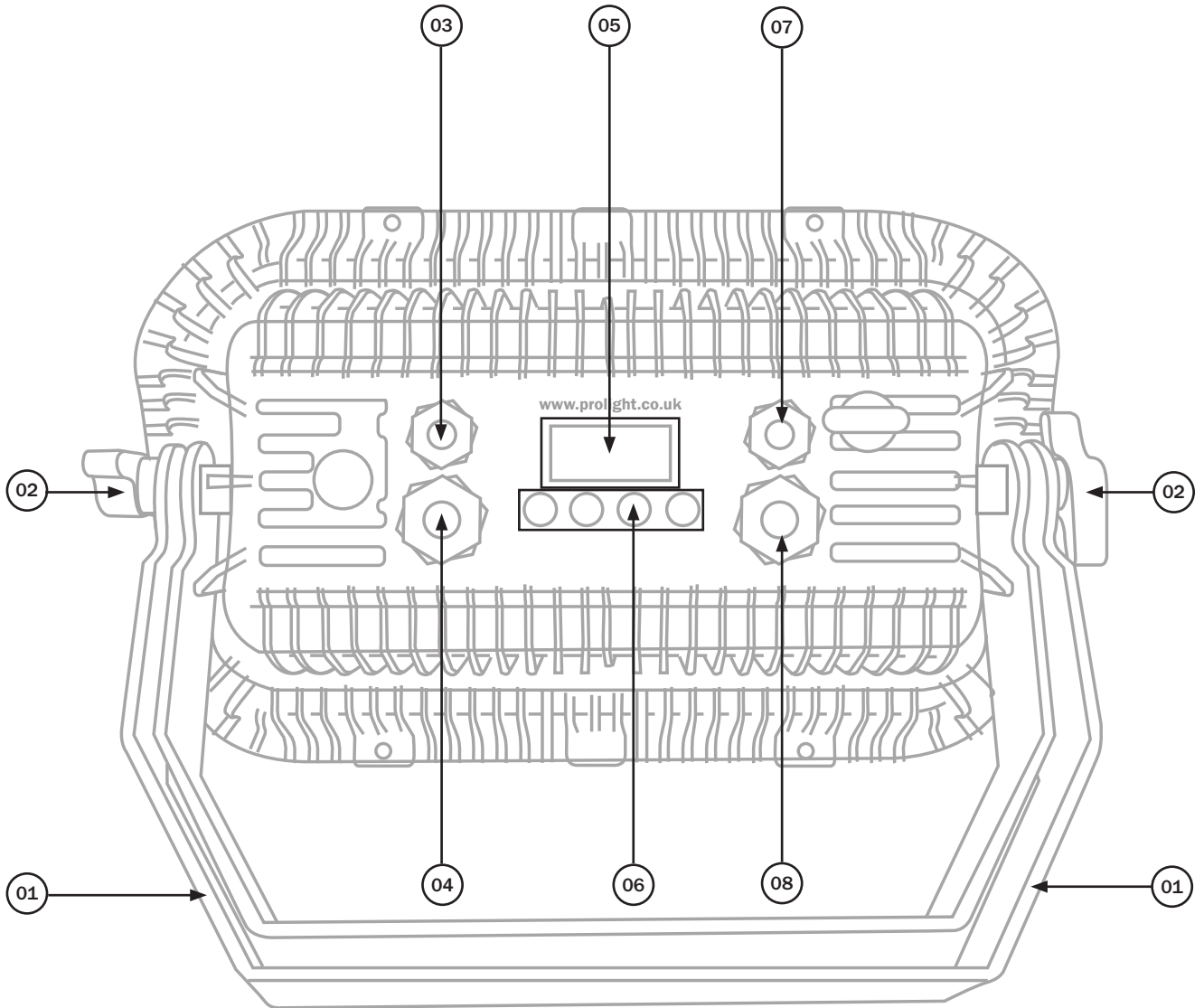


- 18 x 10W six-colour LEDs (RGBWAUV)
- Beam angle: 40°
- 1,770 Lux @ 2m (full on)
- Refresh rate: 1kHz, 3kHz, 6kHz or 12kHz selectable
- DMX channels: 1/6/7/8 or 12 selectable
- Static colour, colour change, colour fade, auto and master/slave modes
- 0 - 100% dimming
- 4 dimming curves with two dimming response times: Linear, square law, inverse square law and S-curve
- Variable strobe
- Bracket allows for multiple rigging or floor standing applications
- 4 push button menu with LED display
- Menu lock prevents unwanted operation
- Hydralock power input/output trailing connections
- Hydralock DMX input/output trailing connections
- Convection cooled

| Specifications | Spectra Flood 18HEX10 |
|-------------------|-----------------------|
| Power consumption | 85W |
| Power supply | 100~240V, 50/60Hz |
| Dimensions | 255 x 320 x 150mm |
| IP rating | IP65 |
| Weight | 4.3kg |
| Order code | LEDJ556 |

| 40° - Lux FULL ON | R | G | B | W | A | UV |
|-------------------|------|------|-----|------|------|-----|
| 7080 | 1748 | 3284 | 740 | 3880 | 2200 | N/A |
| 1770 | 437 | 821 | 185 | 970 | 550 | N/A |
| 787 | 193 | 365 | 81 | 430 | 243 | N/A |
| 443 | 108 | 204 | 45 | 243 | 138 | N/A |
| 282 | 70 | 130 | 30 | 154 | 88 | N/A |



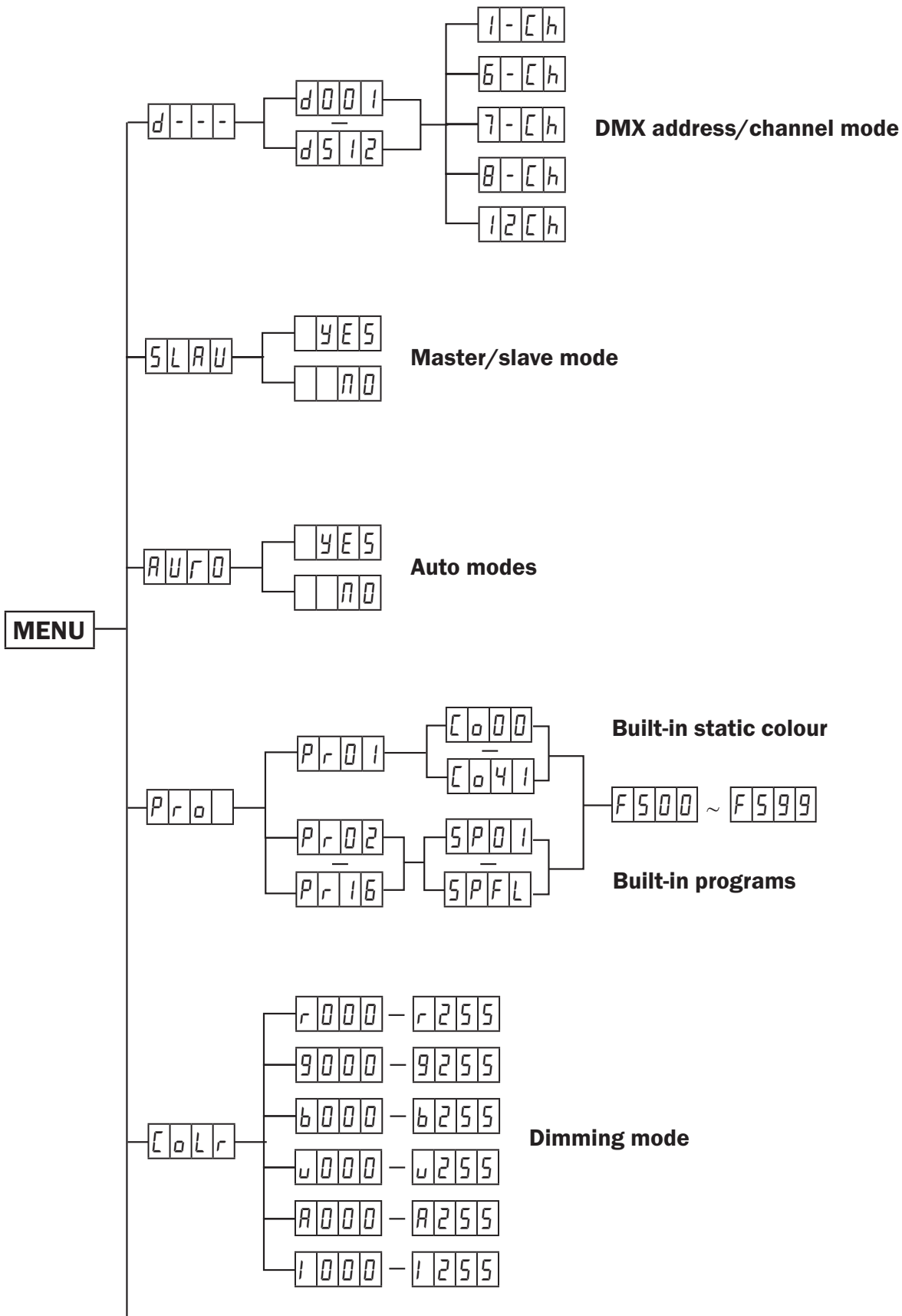


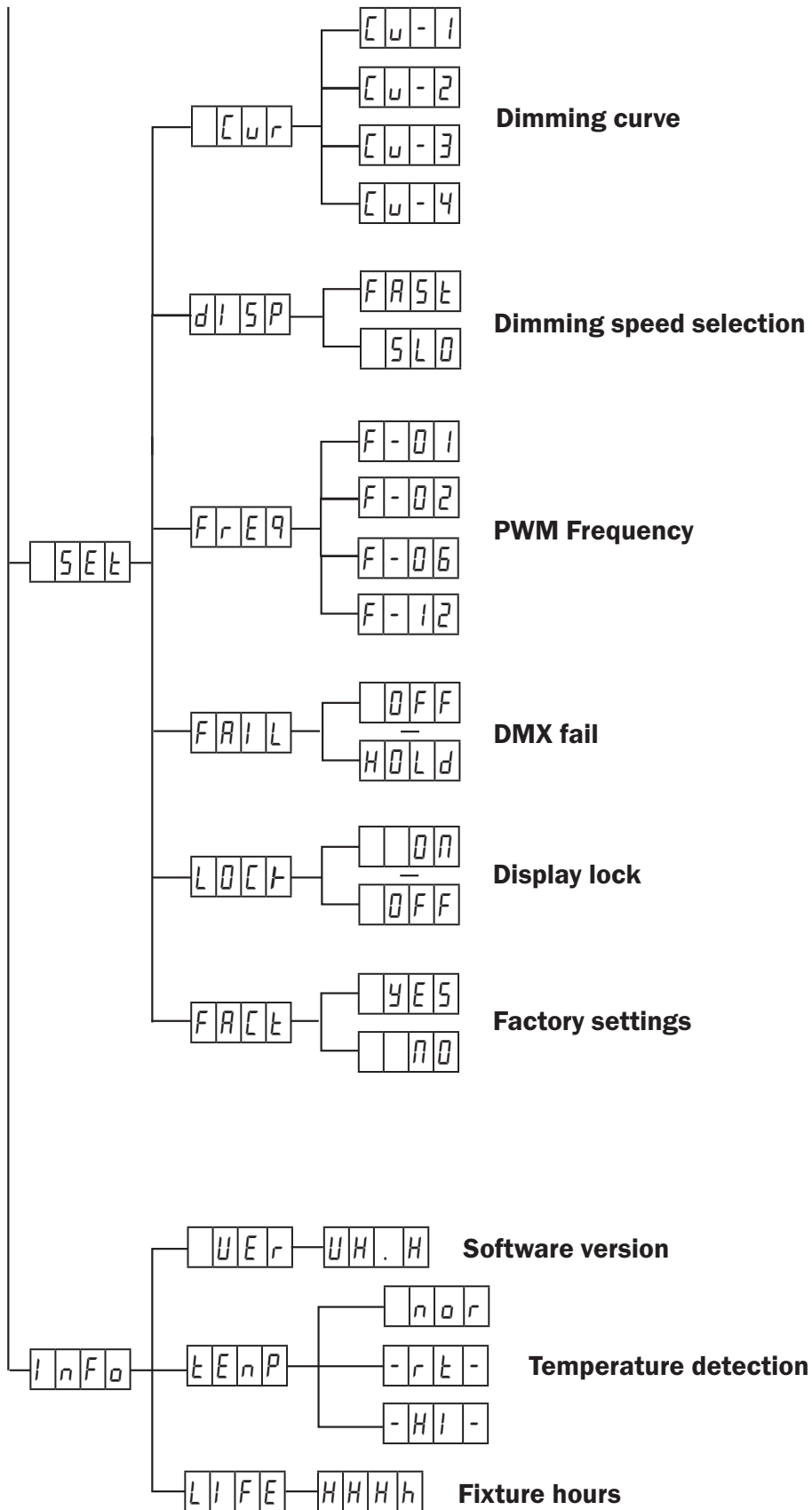
01 - Hanging bracket
 02 - Hanging bracket
 adjustment knobs
 03 - IP rated DMX input

04 - IP rated power input
 05 - LED display
 06 - Functions buttons

07 - IP rated DMX output
 08 - IP rated power output

In the box:
**1 x fixture &
 1 x power cable**





DMX mode:

To select the DMX address, press the “**MODE**” button on the rear of the unit to show $d - - -$ on the LED display. Then press “**ENTER**” and $d000$ will appear. Now use the “**UP**” and “**DOWN**” buttons to select the DMX address between 001-512.

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

DMX channel 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 channel mode, press the “**MODE**” button on the rear of the unit to show $d000$ on the LED display. Now press the “**ENTER**” button to show $- - [H$ on the LED display and use the “**UP**” and “**DOWN**” buttons to select between 1, 6, 7, 8 and 12 channels.

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

1 channel mode:

| Channel | Value | Function | |
|---------|-------------|------------------|---------------|
| 1 | 000-015 | No function | Colour preset |
| | 016-020 | Red | |
| | 021-025 | Flame Red | |
| | 026-030 | Deep Orange | |
| | 031-035 | Amber | |
| | 036-040 | Deep Yellow | |
| | 041-045 | Medium | |
| | 046-050 | Yellow | |
| | 051-055 | Lime Green | |
| | 056-060 | Chartreuse Green | |
| | 061-065 | Bright Green | |
| | 066-070 | Lawn Green | |
| | 071-075 | Green | |
| | 076-080 | Neon Green | |
| | 081-085 | Slime Green | |
| | 086-090 | Harlequin Green | |
| | 091-095 | Spring Green | |
| | 096-100 | Seafoam Green | |
| | 101-105 | Light Blue | |
| | 106-110 | Medium Blue | |
| | 111-115 | Blue | |
| | 116-120 | Deep Blue | |
| | 121-125 | Deep Purple | |
| | 126-130 | Purple | |
| 131-135 | Dark Violet | | |

| Channel | Value | Function | |
|---------|---------|-------------------|---------------|
| 1 | 136-140 | Violet | Colour preset |
| | 141-145 | Magenta | |
| | 146-150 | Fuchsia Pink | |
| | 151-155 | Hot Pink | |
| | 156-160 | Crimson | |
| | 161-165 | Scarlet Red | |
| | 166-170 | Candy Red | |
| | 171-175 | White | |
| | 176-180 | Pastel Pink | |
| | 181-185 | Pastel Baby Pink | |
| | 186-190 | Mint Green | |
| | 191-195 | Pastel Mint Green | |
| | 196-200 | Pastel Blue | |
| | 201-205 | Pastel Baby Blue | |
| | 206-210 | Ice White | |
| | 211-215 | Amber | |
| | 216-255 | UV | |

6 channel mode:

| Channel | Value | Function |
|---------|---------|----------------|
| 1 | 000-255 | Red (0-100%) |
| 2 | 000-255 | Green (0-100%) |
| 3 | 000-255 | Blue (0-100%) |
| 4 | 000-255 | White (0-100%) |
| 5 | 000-255 | Amber (0-100%) |
| 6 | 000-255 | UV (0-100%) |

7 channel mode:

| Channel | Value | Function |
|---------|---------|------------------------|
| 1 | 000-255 | Master Dimmer (0-100%) |
| 2 | 000-255 | Red (0-100%) |
| 3 | 000-255 | Green (0-100%) |
| 4 | 000-255 | Blue (0-100%) |
| 5 | 000-255 | White (0-100%) |
| 6 | 000-255 | Amber (0-100%) |
| 7 | 000-255 | UV (0-100%) |

8 channel mode:

| Channel | Value | Function |
|---------|---------|------------------------|
| 1 | 000-255 | Master Dimmer (0-100%) |
| 2 | 000-010 | No function |
| | 011-255 | Speed (slow-fast) |
| 3 | 000-255 | Red (0-100%) |
| 4 | 000-255 | Green (0-100%) |
| 5 | 000-255 | Blue (0-100%) |
| 6 | 000-255 | White (0-100%) |
| 7 | 000-255 | Amber (0-100%) |
| 8 | 000-255 | UV (0-100%) |

12 channel mode:

| Channel | Value | Function | |
|---------|------------------|------------------------|---------------|
| 1 | 000-255 | Master Dimmer (0-100%) | |
| 2 | 000-010 | No function | |
| | 011-255 | Strobe (slow-fast) | |
| 3 | 000-015 | No function | Colour preset |
| | 016-020 | Red | |
| | 021-025 | Flame Red | |
| | 026-030 | Deep Orange | |
| | 031-035 | Amber | |
| | 036-040 | Deep Yellow | |
| | 041-045 | Medium Yellow | |
| | 046-050 | Yellow | |
| | 051-055 | Lime Green | |
| | 056-060 | Chartreuse Green | |
| | 061-065 | Bright Green | |
| | 066-070 | Lawn Green | |
| | 071-075 | Green | |
| | 076-080 | Neon Green | |
| | 081-085 | Slime Green | |
| | 086-090 | Harlequin Green | |
| | 091-095 | Spring Green | |
| | 096-100 | Seafoam Green | |
| | 101-105 | Light Blue | |
| | 106-110 | Medium Blue | |
| | 111-115 | Blue | |
| | 116-120 | Deep Blue | |
| | 121-125 | Deep Purple | |
| | 126-130 | Purple | |
| | 131-135 | Dark Violet | |
| | 136-140 | Violet | |
| 141-145 | Magenta | | |
| 146-150 | Fuchsia Pink | | |
| 151-155 | Hot Pink | | |
| 156-160 | Crimson | | |
| 161-165 | Scarlet Red | | |
| 166-170 | Candy Red | | |
| 171-175 | White | | |
| 176-180 | Pastel Pink | | |
| 181-185 | Pastel Baby Pink | | |
| 186-190 | Mint Green | | |

12 channel mode (cont):

| Channel | Value | Function | |
|----------|---------|-------------------|---------------------------|
| 3(cont.) | 191-195 | Pastel Mint Green | Colour preset |
| | 196-200 | Pastel Blue | |
| | 201-205 | Pastel Baby Blue | |
| | 206-210 | Ice White | |
| | 211-215 | Amber | |
| | 216-255 | UV | |
| 4 | 000-015 | No function | Programs |
| | 016-031 | Jump 1 | |
| | 032-047 | Jump 2 | |
| | 048-063 | Jump 3 | |
| | 064-079 | Jump 4 | |
| | 080-095 | Jump 5 | |
| | 096-111 | Jump 6 | |
| | 112-127 | Jump 7 | |
| | 128-143 | Jump 8 | |
| | 144-159 | Fade 1 | |
| | 160-175 | Fade 2 | |
| | 176-191 | Fade 3 | |
| | 192-207 | Fade 4 | |
| | 208-223 | Fade 5 | |
| 224-239 | Fade 6 | | |
| 240-255 | Fade 7 | | |
| 5 | 000-255 | Speed (slow-fast) | |
| 6 | 000-255 | Red (0-100%) | |
| 7 | 000-255 | Green (0-100%) | |
| 8 | 000-255 | Blue (0-100%) | |
| 9 | 000-255 | White (0-100%) | |
| 10 | 000-255 | Amber (0-100%) | |
| 11 | 000-255 | UV (0-100%) | |
| 12 | 000-036 | No function | Hold value for 2 seconds. |
| | 037-073 | Dimmer Fast | |
| | 074-110 | Dimmer Slow | |
| | 111-147 | Linear Curve | |
| | 148-184 | Square Curve | |
| | 185-221 | Inv. Square curve | |
| | 222-255 | S-Type Curve | |

Slave mode:

To set the slave unit, press the “MODE” button on the rear of the unit to show *SLAVE* on the LED display, press “ENTER” then use the “UP” and “DOWN” buttons to select *YES* or *NO*. To exit out of any of the above options, press the “MODE” button.

Auto mode:

To access auto mode, press the “MODE” button on the rear of the unit to show *AUTO* use the “UP” and “DOWN” buttons to choose *YES* or *NO* on the LED display. The unit will now run through its built-in programs. To exit out of any of the above options, press the “MODE” button.

Built-in programs:

To select a built-in static colour, press the “MODE” button on the rear of the unit until it shows *PRO* press the “ENTER” button to show *PRO1* then press “ENTER” to show *CO00* Use the “UP” and “DOWN” buttons to select the static colour required *CO00~CO41*. Press the “ENTER” button again to confirm the setting and use the “UP” and “DOWN” buttons to select the flash speed *F500~F599*.

To access the built-in programs, press the “MODE” button on the rear of the unit until it shows *PRO* on the LED display. Press “ENTER” and use the “UP” and “DOWN” buttons to choose the required program *PRO2~PRO16*. Press the “ENTER” button to confirm the setting and use the “UP” and “DOWN” buttons to choose the speed *SP01~SPFL*. Press the “ENTER” button again to confirm the setting and use the “UP” and “DOWN” buttons to select the flash speed *F500~F599*. To exit out of any of the above options, press the “MODE” button.

Colour mix mode:

To access the colour mix mode press “MODE” until *CLR* shows on the LED display. Now press the “ENTER” button and use the “UP” and “DOWN” buttons to select either red (r) green (g), blue (b), White (w), Amber (A) and UV (i). Now use the “UP” and “DOWN” buttons to select the brightness between *r.000~r.255*.

Value: 000 - 255 (000 = low brightness, 255 = high brightness)

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

Dimming Curve Settings

To enter the dimming curve settings, press the “MODE” button on the rear of the unit to show *SET*. Then use the “UP” and “DOWN” buttons to select *CUR*. Use the “UP” and “DOWN” buttons to select one of four dimming curves. *CU-1* (linear) *CU-2* (square law) *CU-3* (inv square law) *CU-4* (S-Curve). To exit out of any of the above options, press the “MODE” button.

Dimming Speed Settings

To enter the dimming speed settings, press the “MODE” button on the rear of the unit to show *SET*. Then press the “ENTER” button on the rear of the unit to show *CUR*. Then use the “UP” and “DOWN” buttons and select *d,SP*. Press the “ENTER” button then use the “UP” and “DOWN” buttons to select *FAST* or *SLA*. To exit out of any of the above options, press the “MODE” button.

Frequency Settings

To enter the dimming speed settings, press the “MODE” button on the rear of the unit to show *SEt*. Then press the “ENTER” button on the rear of the unit to show *FrEq*. Then use the “UP” and “DOWN” buttons to select between *F-01*, *F-02*, *F-06* and *F-12*. To exit out of any of the above options, press the “MODE” button.

Lock Settings

If a menu selection has not been made for 30 seconds, the screen will lock automatically. Press “MODE” and “ENTER” for 3 seconds to unlock. In the unlocked state, press “MODE” and “ENTER” at the same time to lock quickly. To access the lock setting, press “MODE” button on the rear of the unit to show *SEt*. Press “ENTER” and use the “UP” and “DOWN” buttons to select *LOCK*. Then press “ENTER” and use the “UP” and “DOWN” buttons to select *ON* or *OFF*. To exit out of any of the above options, press the “MODE” button.

Factory reset:

Press the “MODE” button to show *SEt*, Press “ENTER” and use the “UP” and “DOWN” buttons to find *FACt*. Press “ENTER” then use the “UP” and “DOWN” buttons to select *YES* or *NO*. The unit will now have reset to factory settings.

Information:

Press the “MODE” button to show *INFO* press “ENTER” and use the “UP” and “DOWN” buttons to find *vEr* (software version), *TEMP* (temperature information) and *LIFE* (fixture hours). Press “ENTER” in any of these menus and the relevant information will be displayed. Please see below chart for temperature information codes.

| | |
|--------------|--|
| <i>nor</i> | When shown on the unit, temperature detection is normal. |
| <i>-r t-</i> | When shown on the unit, the unit temperature is too low and will automatically go into protection mode. |
| <i>-H i-</i> | When shown on the unit, the unit temperature is too high and will automatically go into protection mode. |

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.

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

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.

Further DMX cables can be purchased from all good sound and lighting suppliers or Pro Light Concepts dealers. Please quote:

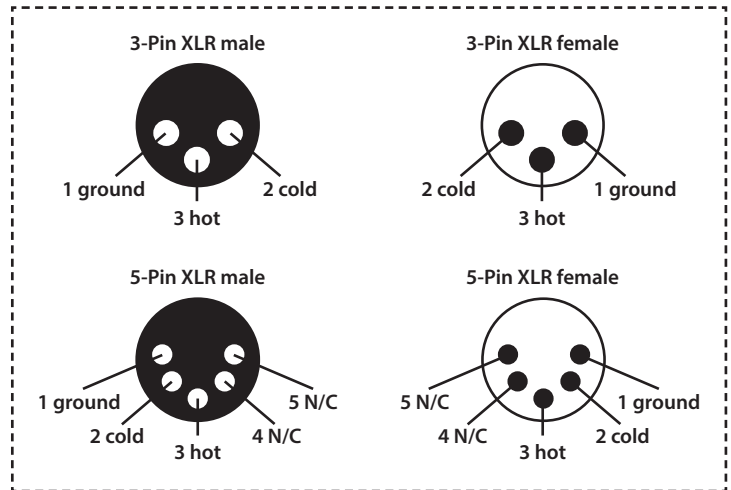
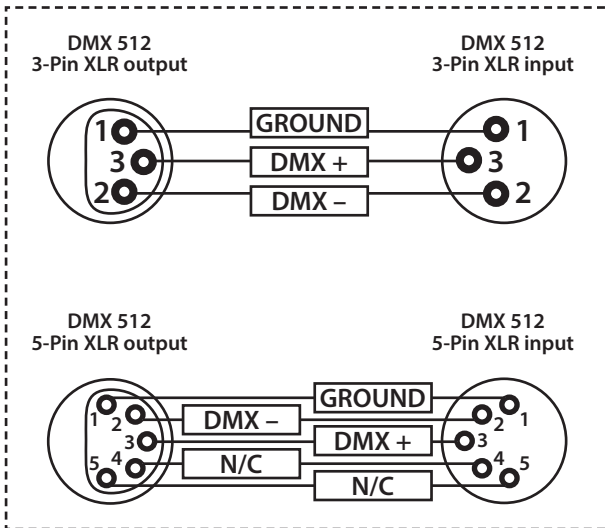
| LEDJ 1m Interior - Exterior DMX cable | LEDJ 1m Exterior DMX cable | LEDJ 2m Exterior DMX cable | LEDJ 5m Exterior DMX cable | LEDJ 10m Exterior DMX cable |
|---|---|---|--|---|
|  |  |  |  |  |
| Order code: LEDJ91 | Order code: LEDJ141 | Order code: LEDJ142 | Order code: LEDJ143 | Order code: LEDJ144 |

| LEDJ 1m Exterior Power cable | LEDJ 2m Exterior Power cable | LEDJ 5m Exterior Power cable | LEDJ 10m Exterior Power cable | LEDJ Spectra Series End Cap Set |
|---|---|---|--|---|
|  |  |  |  |  |
| Order code: LEDJ146 | Order code: LEDJ147 | Order code: LEDJ148 | Order code: LEDJ149 | Order code: LEDJ93 |

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 |

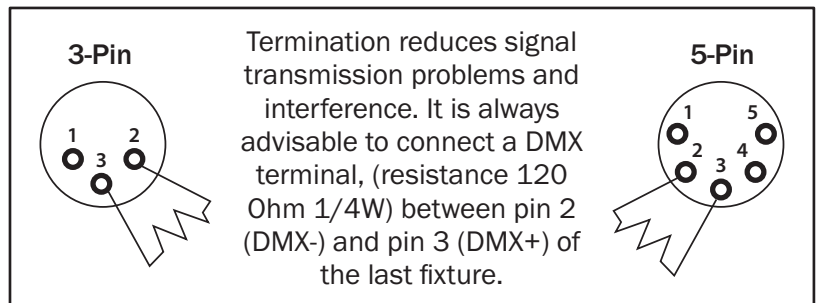


Line termination:

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

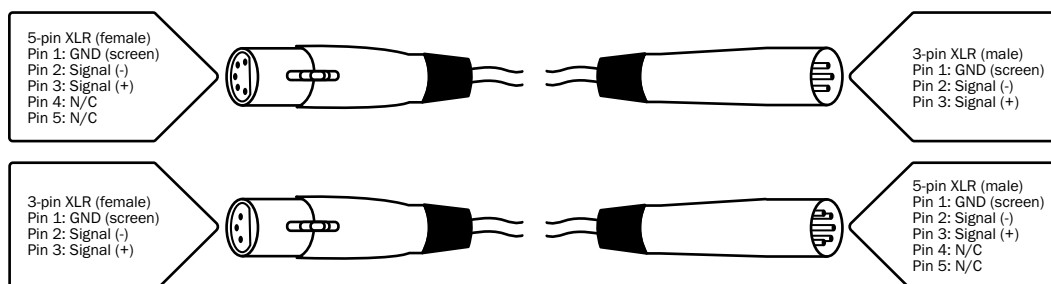
Using a cable terminator will decrease the possibilities of erratic behaviour.

(3-pin - Order ref: CABL90,
5-pin - Order ref: CABL89)



5-pin XLR DMX connectors:

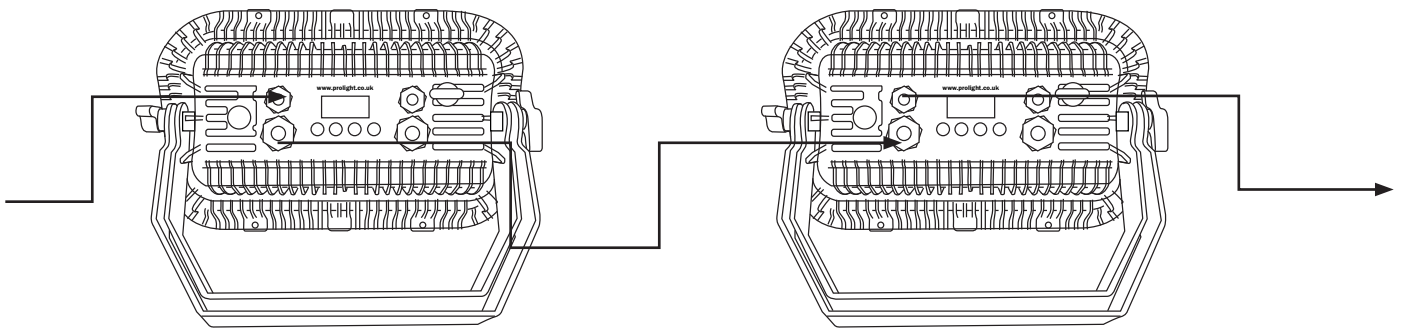
Some manufactures use 5-pin XLR connectors for data transmission in place of 3-pin. 5-pin XLR fixtures may be implemented in a 3-pin XLR DMX line. When inserting standard 5-pin XLR connectors in to a 3-pin line a cable adaptor must be used. The diagram below details the correct cable conversion.



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 20 fixtures @ 240V or 10 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 Spectra Flood 18HEX10 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.



LEDj