LEDJ

Spectra Flood 18T3 PRO
Exterior Fixture

User Manual

Order code: LEDJ256A

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.
- 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.

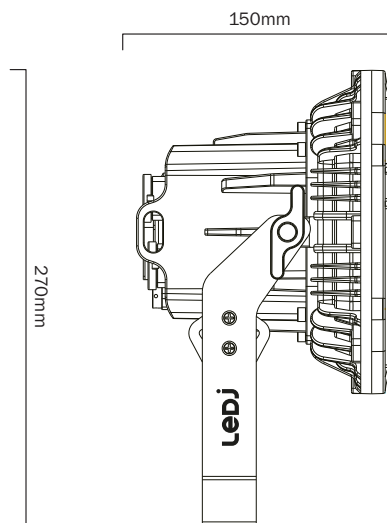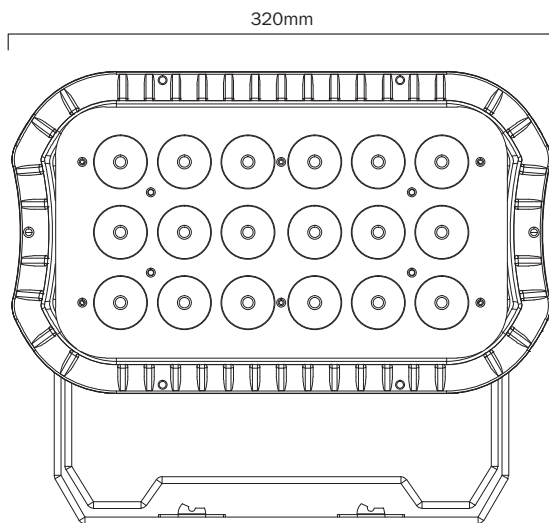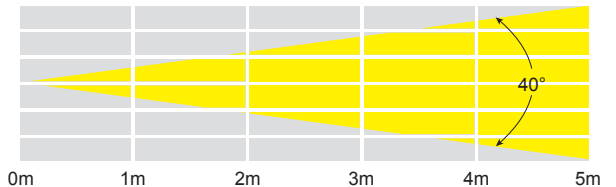## Spectra Flood 18T3 PRO Exterior Fixture

IP65 RATED

The exterior Spectra Flood 18T3 PRO features 18 x 3W tri-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 TRUE1 and 5-Pin DMX inputs and outputs to facilitate a problem-free, rental ready connection.
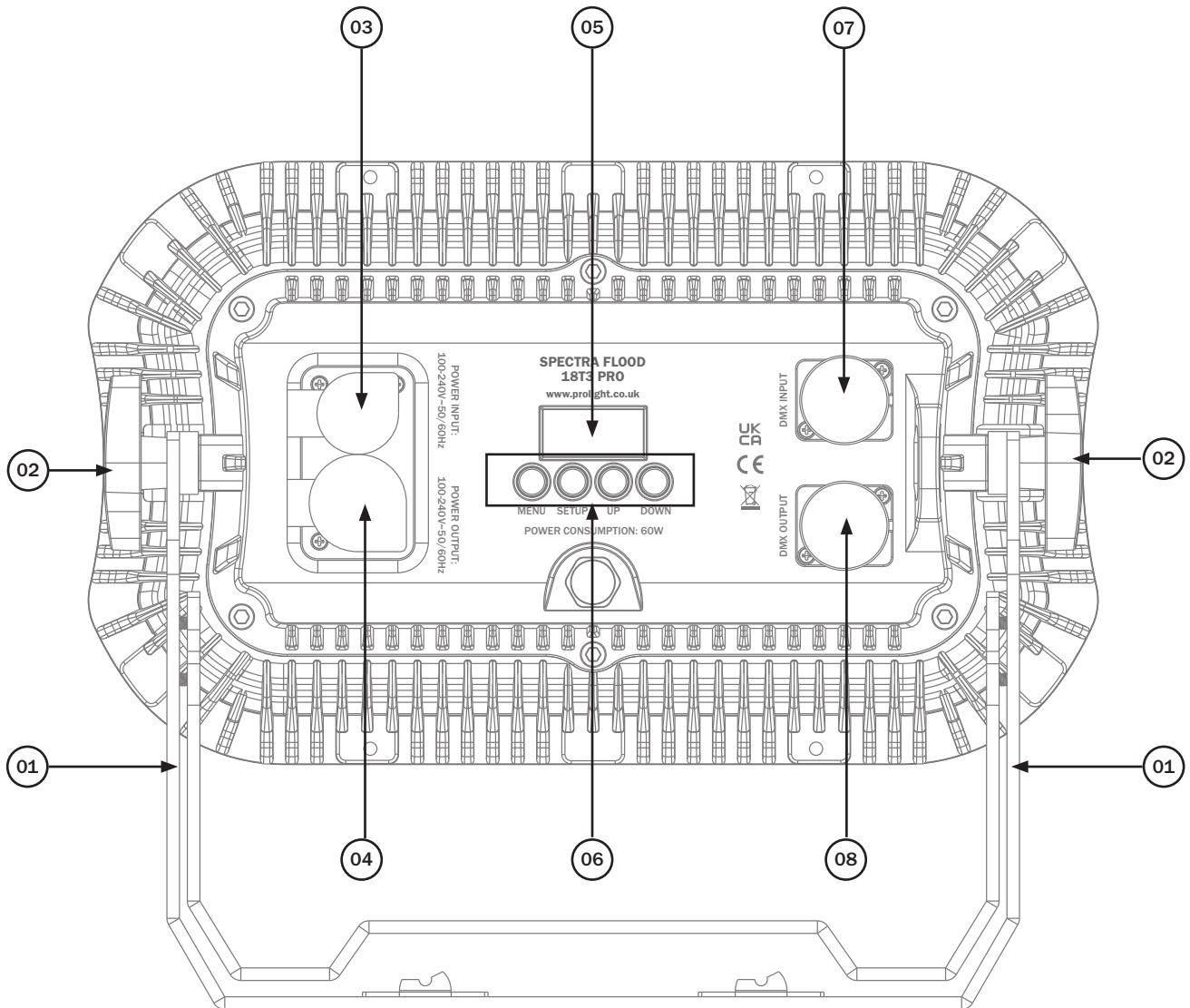
- 18 x 3W tri-colour LEDs (RGB)
- Beam angle: 40°
- 2,167 Lux @ 2m (full on)
- Refresh rate: 1kHz, 3kHz, 6kHz or 12kHz selectable
- DMX channels: 1/3/4/5 or 9 selectable
- Static colour, colour fade, colour change,auto and master/slave modes
- 0 - 100% dimming
- 4 dimming curves with two dimming response times: Linear, square law, inverse square law and S-curve
- Variable strobe
- Bracket allows for multiple rigging
- or floor standing applications
- Quick release omega clamp included
- 4 push button menu with LED display
- Menu lock prevents unwanted operation
- PowerCON TRUE1 compatible Seetronic input/output
- IP rated 5-Pin XLR input/output
- Convection cooled

Specifications	Spectra Par 18T3 PRO
Power consumption	65W
Power supply	100~240V, 50/60Hz
Dimensions	270 x 320 x 150mm
IP rating	IP65
Weight	4.4kg
Order code	LEDJ256A

40° - Lux					
FULL ON	8668	2167	962	542	347
R	3300	825	367	205	132
G	5060	1265	561	315	201
B	728	182	81	46	28

| 0m | 1m | 2m | 3m | 4m | 5m |

40°

320mm

270mm

150mm

![LEDJ logo]

**SPECTRA FLOOD
18T3 PRO**
www.prolight.co.uk

POWER INPUT:
100-240V~50/60Hz

POWER OUTPUT:
100-240V~50/60Hz

MENU   SETUP   UP   DOWN
POWER CONSUMPTION: 60W

DMX INPUT

DMX OUTPUT

UK CA

CE
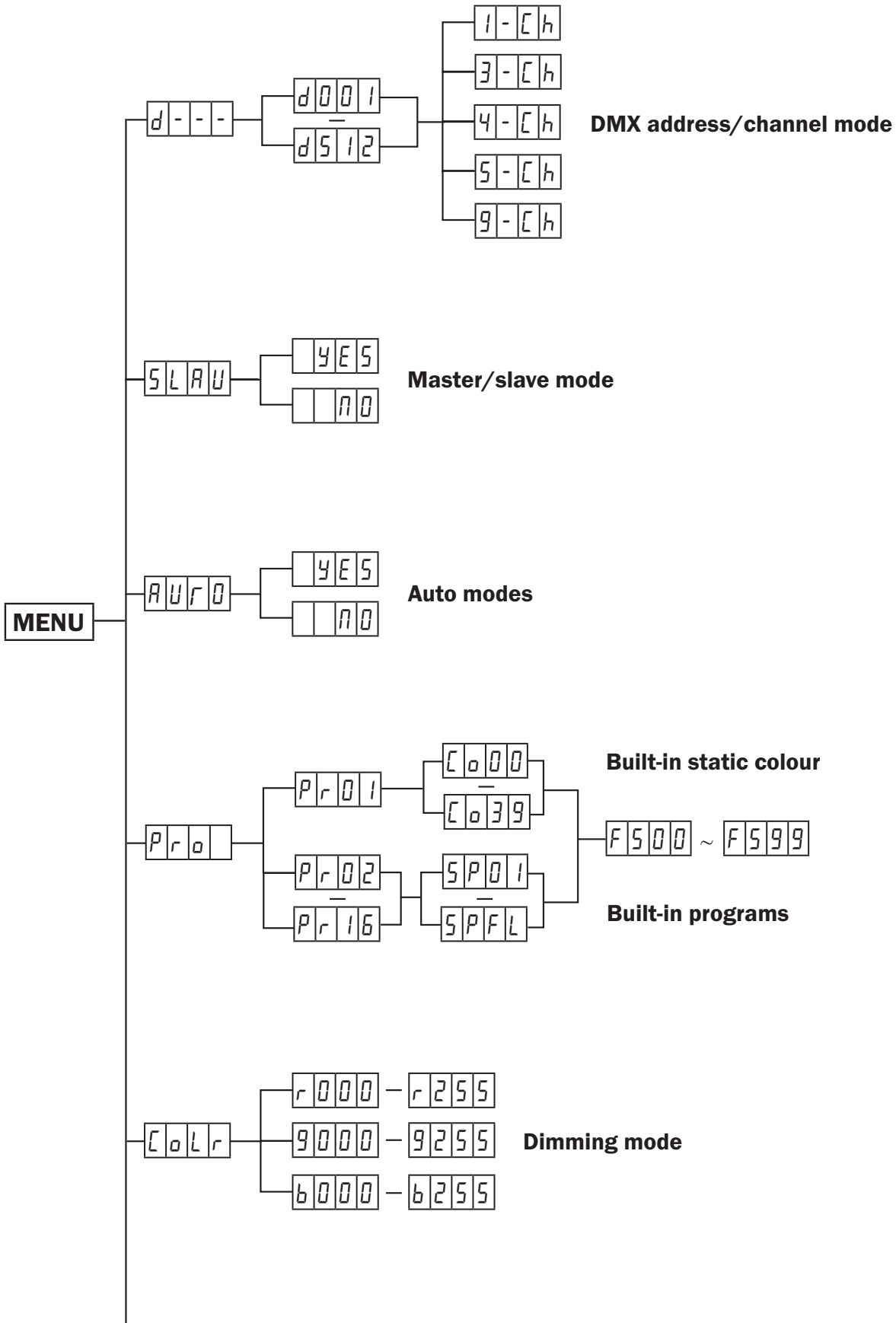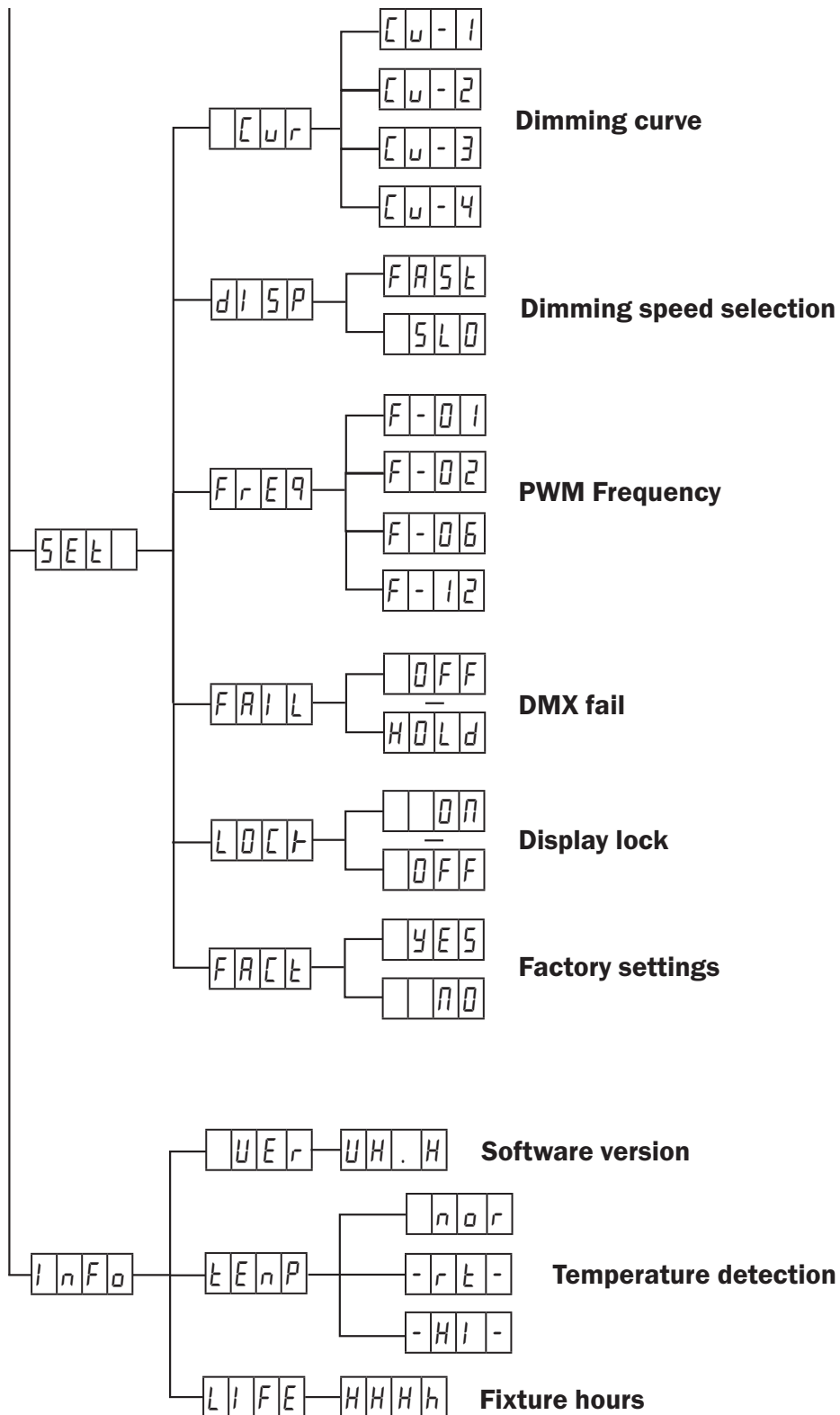
01 - Hanging bracket
02 - Hanging bracket
       adjustment knobs
03 - IP rated power input

04 - IP rated power output
05 - LED display
06 - Function buttons

07 - IP rated DMX input
08 - IP rated DMX output

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

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DMX address/channel mode

Master/slave mode

Auto modes

Built-in static colour

Built-in programs

Dimming mode

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```
                ┌─── [Cu-1]
                │
        ┌─[Cur]─┼─── [Cu-2]
        │       │              Dimming curve
        │       ├─── [Cu-3]
        │       │
        │       └─── [Cu-4]
        │
        │       ┌─── [FASt]
        ├─[dISP]─┤              Dimming speed selection
        │       └─── [SLO]
        │
        │       ┌─── [F-01]
        │       │
        ├─[FrE9]─┼─── [F-02]
        │       │              PWM Frequency
        │       ├─── [F-06]
        │       │
        │       └─── [F-12]
        │
        │       ┌─── [OFF]
  [SEt]─┼─[FAIL]─┤              DMX fail
        │       └─── [HOLd]
        │
        │       ┌─── [ON]
        ├─[LOCt]─┤              Display lock
        │       └─── [OFF]
        │
        │       ┌─── [YES]
        └─[FACt]─┤              Factory settings
                └─── [NO]


        ┌─[UEr]──[UH.H]        Software version
        │
        │       ┌─── [nor]
        │       │
  [InFo]─┼─[tEnP]─┼─── [-rt-]     Temperature detection
        │       │
        │       └─── [-HI-]
        │
        └─[LIFE]──[HHHh]        Fixture hours
```

DMX mode:

To select the DMX address, press the "**MENU**" button on the rear of the unit to show d − − − on the LED display. Then press "**SETUP**" and $d\,00\,1$ 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 "**MENU**" 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 "**SETUP**" button on the rear of the unit to show $d\,00\,1$ on the LED display. Now press the "**SETUP**" button to show − − CH on the LED display and use the "**UP**" and "**DOWN**" buttons to select between 1, 3, 4, 5 and 9 channels.

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

1 channel mode:

Channel	Value	Function	
1	000-015	No function	Colour preset
	016-021	Red	
	022-027	Flame Red	
	028-033	Deep Orange	
	034-039	Amber	
	040-045	Deep Yellow	
	046-051	Medium Yellow	
	052-057	Yellow	
	058-063	Lime Green	
	064-069	Chartreuse Green	
	070-075	Bright Green	
	076-081	Lawn Green	
	082-087	Green	
	088-093	Neon Green	
	094-099	Slime Green	
	100-105	Harlequin Green	
	106-111	Spring Green	
	112-117	Seafoam Green	
	118-123	Light Blue	
	124-129	Medium Blue	
	130-135	Blue	
	136-141	Deep Blue	
	142-147	Deep Purple	
	148-153	Purple	
	154-159	Dark Violet	
	160-165	Violet	

Channel	Value	Function	
1	166-171	Magenta	Colour preset
	172-177	Fuchsia Pink	
	178-183	Hot Pink	
	184-189	Crimson	
	190-195	Scarlet Red	
	196-201	Candy Red	
	202-207	White	
	208-213	Salmon Pink	
	214-219	Peach Pink	
	220-225	Mint Green	
	226-231	Asparagus Green	
	232-237	Lavendar	
	238-243	Soft Purple	
	244-255	Olive Green	

3 channel mode:

Channel	Value	Function
1	000-255	Red (0-100%)
2	000-255	Green (0-100%)
3	000-255	Blue (0-100%)

4 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 channel mode:

Channel	Value	Function
1	000-255	Master Dimmer (0-100%)
2	000-010	No function
	011-255	Strobe (slow-fast)
3	000-255	Red (0-100%)
4	000-255	Green (0-100%)
5	000-255	Blue (0-100%)

9 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
	016-021	Red	
	022-027	Flame Red	
	028-033	Deep Orange	
	034-039	Amber	
	040-045	Deep Yellow	
	046-051	Medium Yellow	
	052-057	Yellow	
	058-063	Lime Green	
	064-069	Chartreuse Green	
	070-075	Bright Green	
	076-081	Lawn Green	
	082-087	Green	
	088-093	Neon Green	
	094-099	Slime Green	
	100-105	Harlequin Green	
	106-111	Spring Green	
	112-117	Seafoam Green	
	118-123	Light Blue	
	124-129	Medium Blue	
	130-135	Blue	
	136-141	Deep Blue	
	142-147	Deep Purple	
	148-153	Purple	
	154-159	Dark Violet	
	160-165	Violet	
	166-171	Magenta	
	172-177	Fuchsia Pink	

Channel	Value	Function	
3	178-183	Hot Pink	Colour preset
	184-189	Crimson	
	190-195	Scarlet Red	
	196-201	Candy Red	
	202-207	White	
	208-213	Salmon Pink	
	214-219	Peach Pink	
	220-225	Mint Green	
	226-231	Asparagus Green	
	232-237	Lavendar	
	238-243	Soft Purple	
	244-255	Olive Green	
4	016-031	Jump 1	Program
	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%)	

Slave mode:

To set the slave unit, press the "**MENU**" button on the rear of the unit to show $5L Ru$ on the LED display, press "**SETUP**" then us the "**UP**" and "**DOWN**" buttons to select 985 or $N0$. To exit out of any of the above options, press the "**MODE**" button.

Auto mode:

To access auto mode, press the "**MENU**" button on the rear of the unit to show $RU\Gamma 0$. Press "**SETUP**" and use the "**UP**" and "**DOWN**" buttons to choose $9E5$ or $N0$ 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 "**MENU**" button.

Built-in programs:

To select a built-in static colour, press the "**MENU**" button on the rear of the unit until it shows $P\Gamma o$. Press the "**SETUP**" button to display $P\Gamma 0 1$ then press "**SETUP**" again to show $Co00$. Use the "**UP**" and "**DOWN**" buttons to select the static colour required $Co00 \sim Co39$. Press the "**ENTER**" button again to confirm the setting and use the "**UP**" and "**DOWN**" buttons to select the flash speed $F500 \sim F599$. To access the built-in programs, press the "**MENU**" button on the rear of the unit to show $P\Gamma o$ on the LED display. Press "**SETUP**" and use the "**UP**" and "**DOWN**" buttons to choose the required program $P\Gamma 02 \sim P\Gamma 16$. Press the "**SETUP**" button to confirm the setting and use the "**UP**" and "**DOWN**" buttons to choose the speed $5P0 1 \sim 5PFL$. Press the "**SETUP**" button again to confirm the setting and use the "**UP**" and "**DOWN**" buttons to select the flash speed $F500 \sim F599$.

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

Colour mix mode:

Press the "**MENU**" button to choose $CoL\Gamma$, then press "**SETUP**" and use the "**UP**" and "**DOWN**" buttons to display red (Γ). It will show the red brightness between $\Gamma.000 \sim \Gamma.255$. Now use the "**UP**" and "**DOWN**" buttons to adjust the red brightness and press the "**SETUP**" button to confirm. Repeat for green (9) and blue (b).

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

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

Dimming Curve Settings:

To enter the dimming curve settings, press the "**SETUP**" button on the rear of the unit to show $5E\varepsilon$. Then use the "**UP**" and "**DOWN**" buttons to select $Cu\Gamma$. 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-Type). To exit out of any of the above options, press the "**MENU**" button.

Dimming Speed Settings:

To enter the dimming speed settings, press the "**MENU**" button on the rear of the unit to show $5E\varepsilon$. Then press the "**SETUP**" button to show $d\iota5P$. Then use the "**UP**" and "**DOWN**" buttons to select $FR5\varepsilon$ or $5L0$. To exit out of any of the above options, press the "**MENU**" button.

Frequency Settings:

To enter the dimming speed settings, press the "**MENU**" button on the rear of the unit to show $5E\varepsilon$.

Then press the "**SETUP**" button on the rear of the unit to show $Fr\mathcal{E}9$. Then use the "**UP**" and "**DOWN**" buttons to set the desired frequency $F-01 \sim F-12$.

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

Lock Settings:

If a menu selection has not been made for 30 seconds, the screen will lock automatically. Press "**MENU**" and "**ENTER**" for 3 seconds to unlock. In the unlocked state, press "**MENU**" and "**SETUP**" at the same time to lock quickly. To access the lock setting, press "**MENU**" button on the rear of the unit to show $5EE$. Press "**ENTER**" and use the "**UP**" and "**DOWN**" buttons to select $LOCH$. Then press "**ENTER**" and use the "**UP**" and "**DOWN**" buttons to select 0Π or $0FF$.

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

Factory reset:

Press the "**MENU**" button to show $5EE$, press "**SETUP**" and use the "**UP**" and "**DOWN**" buttons to find $FRCE$. Press "**SETUP**" then use the "**UP**" and "**DOWN**" buttons to select $4E5$ or $\Pi0$. The unit will now have reset to factory settings.

Information:

Press the "**MENU**" button to show $I\,nFo$ press "**SETUP**" and use the "**UP**" and "**DOWN**" buttons to find $u\mathcal{E}r$ (software version), $EE\Pi P$ (temperature information) and $LIFE$ (fixture hours). Press "**SETUP**" in any of these menus and the relevant information will be displayed. Please see below chart for temperature information codes.

Πor	When shown on the unit, temperature detection is normal.
$-rE-$	When shown on the unit, the unit temperature is too low and will automatically go into protection mode.
$-Hi-$	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 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.

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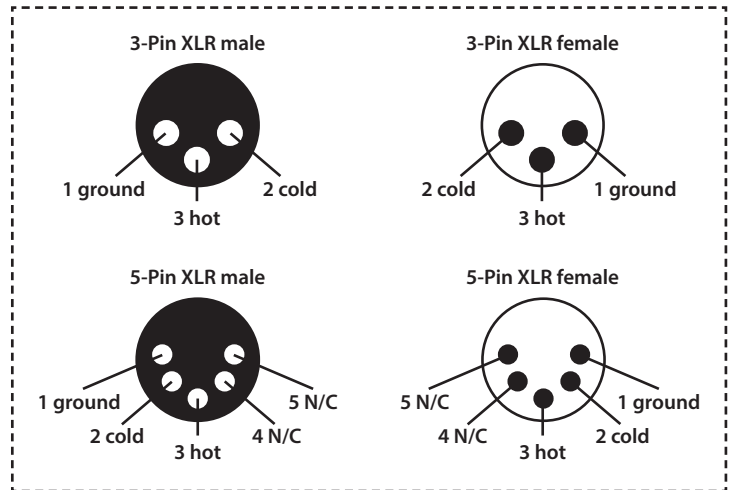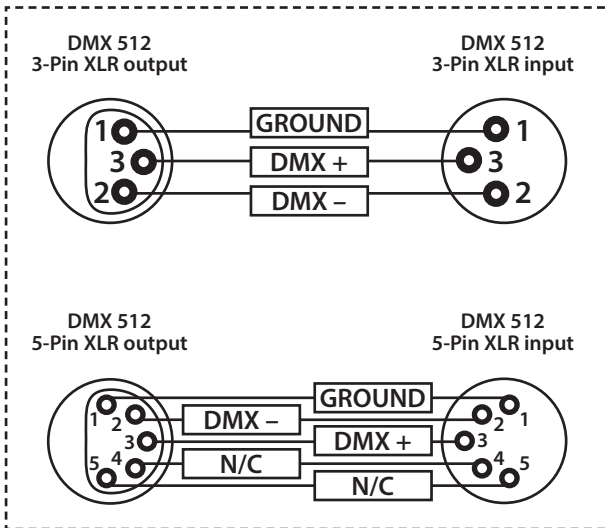
LEDJ 1m Interior - Exterior DMX cable	LEDJ 1m Exterior DMX cable	LEDJ 2m Exterior DMX cable	LEDJ 5m Exterior DMX cable	LEDJ 10m Exterior DMX cable
Order code: LEDJ91	Order code: LEDJ141	Order code: LEDJ142	Order code: LEDJ143	Order code: LEDJ144

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.

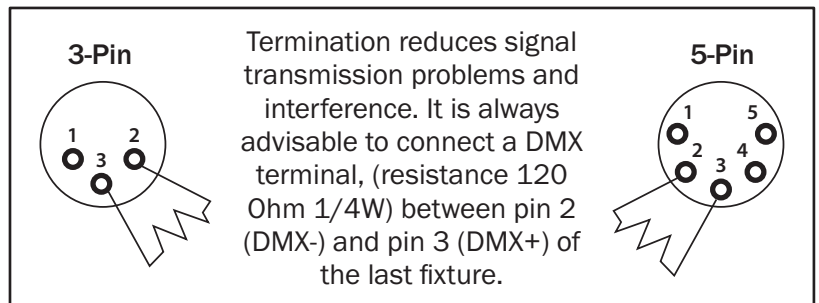| Pin Configuration	
3-Pin	**5-Pin**
Pin 1 - Ground	
Pin 2 - Negative	
Pin 3 - Positive	
–	Pin 4 - N/C
–	Pin 5 - N/C

Line termination:

When longer runs of cable are used, you may need to use a terminator on the last unit to avoid erratic behaviour.
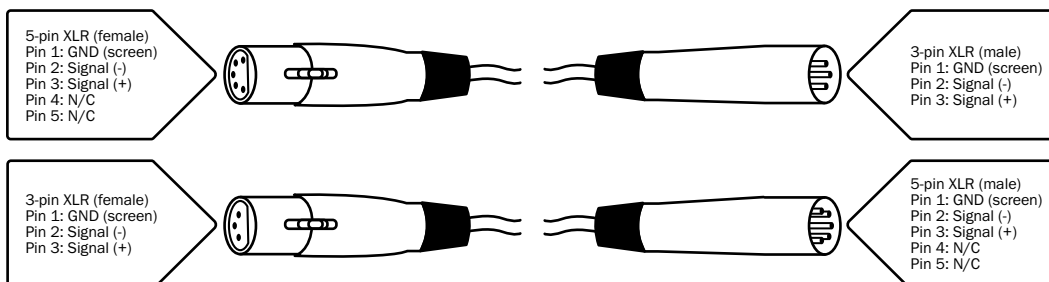
Using a cable terminator will decrease the possibilities of erratic behaviour. (3-pin - Order ref: CABL90, 5-pin - Order ref: CABL89)

Termination reduces signal transmission problems and interference. It is always advisable to connect a DMX terminal, (resistance 120 Ohm 1/4W) between pin 2 (DMX-) and pin 3 (DMX+) of the last fixture.
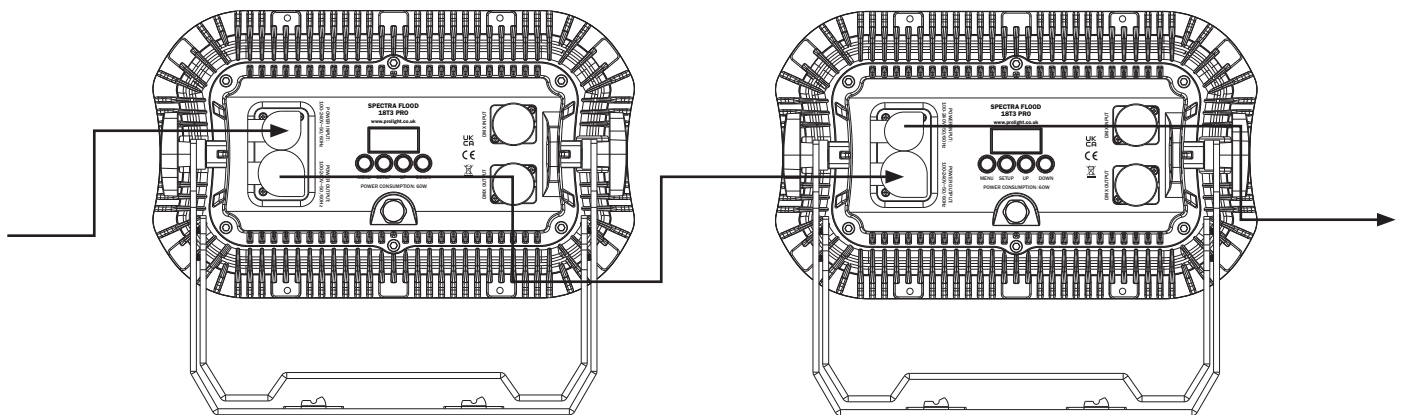
5-pin XLR DMX connectors:

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.

5-pin XLR (female)
Pin 1: GND (screen)
Pin 2: Signal (-)
Pin 3: Signal (+)
Pin 4: N/C
Pin 5: N/C

3-pin XLR (male)
Pin 1: GND (screen)
Pin 2: Signal (-)
Pin 3: Signal (+)

3-pin XLR (female)
Pin 1: GND (screen)
Pin 2: Signal (-)
Pin 3: Signal (+)

5-pin XLR (male)
Pin 1: GND (screen)
Pin 2: Signal (-)
Pin 3: Signal (+)
Pin 4: N/C
Pin 5: N/C

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 18T3 PRO 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.

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