EQUINOX

Blitzer RGB Strobe

User Manual

Order code: EQLED365

WARNING

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

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

CAUTION!
KEEP THIS EQUIPMENT AWAY FROM RAIN, MOISTURE AND LIQUIDS

CAUTION!
TAKE CARE USING THIS EQUIPMENT!
HIGH VOLTAGE-RISK OF ELECTRIC SHOCK!!

IMPORTANT:

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

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

- If the equipment has been exposed to drastic temperature fluctuation (e.g. after transportation), do not connect power or switch it on immediately. The arising condensation might damage the equipment. Leave the equipment switched off until it has reached room temperature.
- If your product fails to function correctly, stop use immediately. Pack the unit securely (preferably in the original packing material), and return it to your Pro Light dealer for service.
- Only use fuses of same type and rating.
- Repairs, servicing and power connection must only be carried out by a qualified technician. THIS UNIT CONTAINS NO USER SERVICEABLE PARTS.
- This lighting fixture is for professional use only - it is not designed for or suitable for household use. The product must be installed by a qualified technician in accordance with local territory regulations. The safety of the installation is the responsibility of the installer. The fixture presents risks of severe injury or death due to fire hazards, electric shock and falls.
- Warning! Risk Group 2 LED product according to EN 62471. Do not view the light output with optical instruments or any device that may concentrate the beam.
- WARRANTY: One year from date of purchase.

OPERATING DETERMINATIONS

If this equipment is operated in any other way, than those described in this manual, the product may suffer damage and the warranty becomes void. Incorrect operation may lead to danger e.g: short-circuit, burns and electric shocks etc.

Do not endanger your own safety and the safety of others!

Incorrect installation or use can cause serious damage to people and/or property.

Blitzer RGB Strobe

The Blitzers are compact all-in-one strobe, blinder and wash lights, equipped with 132 SMD LEDs and an 80° beam angle all enclosed in a robust metal housing with mounting bracket. The DMX modes feature control over dimmer, flash speed and duration. Master/slave, sound active and stand alone modes also add to the multitude of features.

- 132 tri-colour 5050 SMD LEDs (RGB
- Beam angle: 80°
- DMX channels: 1/2-1/2-2/3-1/3-2/3-3/ 4 or 6 selectable
- Auto, sound active and master/slave modes
- 0 - 100% dimming and variable strobe
- Supplied with hanging bracket
- 4 push button menu with LED display
- IEC power input
- 3-Pin XLR input/output
- Convection cooled

Specifications	
Power consumption	30W
Power supply	100~240V, 50/60Hz
Fuse	F2A 250V
Dimensions	120 x 345 x 75mm
Weight	1.35kg
Order codes	EQLED365

345mm

75mm

120mm
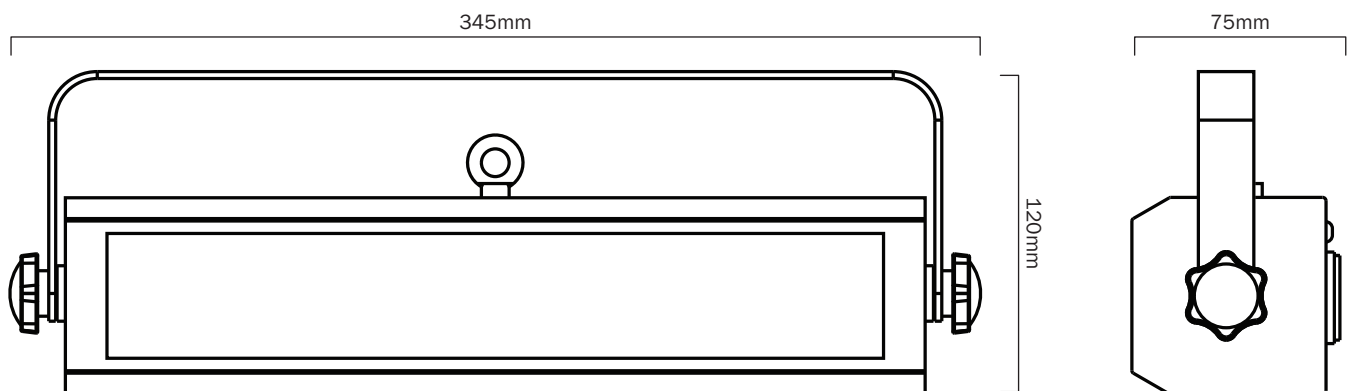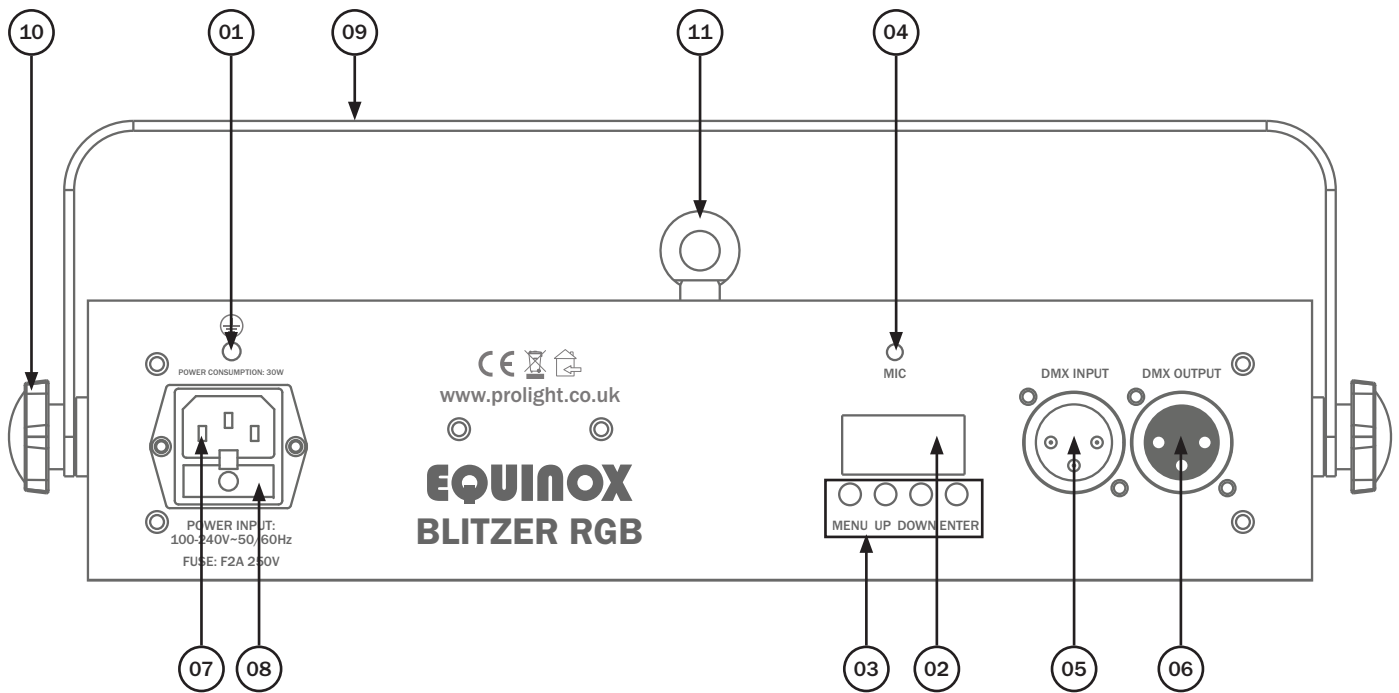
01 - Earth point
02 - LED display
03 - Function buttons
04 - Microphone

05 - DMX input socket
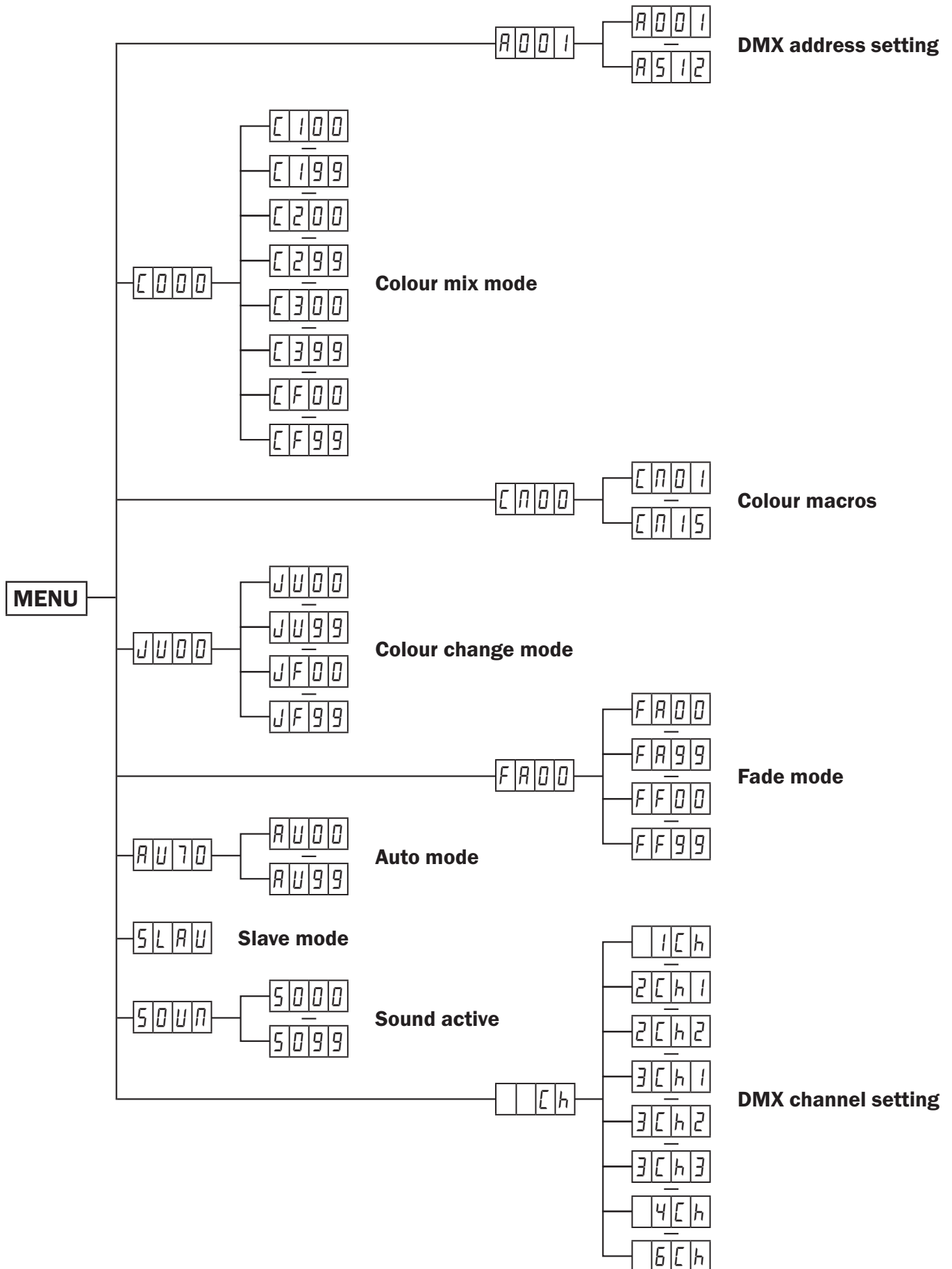06 - DMX output socket
07 - IEC power input socket
08 - Fuse F2A 250V

09 - Hanging bracket
10 - Hanging bracket
     adjustment knob
11 - Safety eye

In the box: **1 x fixture,
1 x power cable,
& 1 x user manual**

		`A001`	**DMX address setting**
		`AS12`	

	`C100`	
	`C199`	
	`C200`	
	`C299`	**Colour mix mode**
`C000`	`C300`	
	`C399`	
	`CF00`	
	`CF99`	

	`CN01`	**Colour macros**
`CN00`	`CN15`	

MENU

	`JU00`	
	`JU99`	**Colour change mode**
`JU00`	`JF00`	
	`JF99`	

	`FA00`	
	`FA99`	**Fade mode**
`FA00`	`FF00`	
	`FF99`	

	`AU00`	**Auto mode**
`AU70`	`AU99`	

`SLAV`	**Slave mode**

	`S000`	**Sound active**
`SOUN`	`S099`	

	`1Ch`	
	`2Ch1`	
	`2Ch2`	
	`3Ch1`	**DMX channel setting**
`Ch`	`3Ch2`	
	`3Ch3`	
	`4Ch`	
	`6Ch`	

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 *A00 1* 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 "**MENU**" button on the front of the unit to show *Ch* on the LED display. Now press the "**ENTER**" button and use the "**UP**" and "**DOWN**" buttons to choose one of the 1/2-1/2-2/3-1/3-2/3-3/4 or 6 DMX channel modes. Press the "**ENTER**" button to confirm the setting.

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

> **PLEASE NOTE:** When the unit is receiving DMX the first red dot on the display will flash.

1 channel mode:

Channel	Value	Function
CH1	000-010	No function
	011-255	Strobe (slow-fast)

2 channel mode 2:

Channel	Value	Function
CH1	000-255	Master dimmer (0-100%)
CH2	000-005	No function
	006-010	Blackout
	011-250	Strobe (slow-fast)
	251-255	No function

3 channel mode 1:

Channel	Value	Function
CH1	000-255	Master dimmer (0-100%)
CH2	000-005	No function
	006-010	Blackout
	011-250	Strobe (slow-fast)
	251-255	No function
CH3	000-255	Flash duration (slow-fast)

2 channel mode 1:

Channel	Value	Function
CH1	000-255	Master dimmer (0-100%)
CH2	000-005	No function
	006-013	Red
	014-021	Amber
	022-029	Yellow/Orange
	030-037	Yellow
	038-045	Green
	046-053	Turquoise
	054-061	Cyan
	062-069	Blue
	070-077	Lavender
	078-085	Mauve
	086-093	Magenta
	094-101	Pink
	102-109	Warm White
	110-117	White
	118-125	Cool White
	126-128	Colour change stop
	129-192	Colour change (slow-fast)
	193-255	Colour fade (slow-fast)

3 channel mode 2:

Channel	Value	Function
CH1	000-255	Master dimmer (0-100%)
CH2	000-005	No function
	006-010	Blackout
	011-250	Strobe (slow-fast)
	251-255	No function
CH3	000-005	No function
	006-013	Red
	014-021	Amber
	022-029	Yellow/Orange
	030-037	Yellow
	038-045	Green
	046-053	Turquoise
	054-061	Cyan
	062-069	Blue
	070-077	Lavender
	078-085	Mauve
	086-093	Magenta
	094-101	Pink
	102-109	Warm White
	110-117	White
	118-125	Cool White
	126-128	Colour change stop
	129-192	Colour change (slow-fast)
	193-255	Colour fade (slow-fast)

3 channel mode 3:

Channel	Value	Function
CH1	000-255	Red dimmer (0-100%)
CH2	000-255	Green dimmer (0-100%)
CH3	000-255	Blue dimmer (0-100%)

4 channel mode:

Channel	Value	Function
CH1	000-255	Master dimmer (0-100%)
CH2	000-005	No function
	006-010	Blackout
	011-033	Strobe pulse (slow-fast)
	034-056	Strobe ramp up (slow-fast)
	057-079	Strobe ramp down (slow-fast)
	080-102	Strobe random (slow-fast)
	103-127	Strobe (short flash)
	128-250	Strobe (slow-fast)
	251-255	No function
CH3	000-005	No function
	006-013	Red
	014-021	Amber
	022-029	Yellow/Orange
	030-037	Yellow
	038-045	Green
	046-053	Turquoise
	054-061	Cyan
	062-069	Blue
	070-077	Lavender
	078-085	Mauve
	086-093	Magenta
	094-101	Pink
	102-109	Warm White
	110-117	White
	118-125	Cool White
	126-128	Colour change stop
	129-192	Colour change (slow-fast)
	193-255	Colour fade (slow-fast)
CH4	000-005	Sound active OFF
	006-255	Sound active ON (sens low-high)

6 channel mode:

Channel	Value	Function
CH1	000-255	Master dimmer (0-100%)
CH2	000-005	No function
	006-010	Blackout
	011-033	Strobe pulse (slow-fast)
	034-056	Strobe ramp up (slow-fast)
	057-079	Strobe ramp down (slow-fast)
	080-102	Strobe random (slow-fast)
	103-127	Strobe (short flash)
	128-250	Strobe (slow-fast)
	251-255	No function
CH3	000-255	Red dimmer (0-100%)
CH4	000-255	Green dimmer (0-100%)
CH5	000-255	Blue dimmer (0-100%)
CH6	000-005	Sound active OFF
	006-255	Sound active ON (sens low-high)

Colour mix mode:

To access the colour mix mode, press the "**MENU**" button on the front of the unit to show $\complement \mathit{000}$ on the LED display. Now press the "**ENTER**" button and use the "**UP**" and "**DOWN**" buttons to choose $\complement\ \mathit{1.00}$. Press the "**ENTER**" button and use the "**UP**" and "**DOWN**" buttons to select the brightness of Red between $\mathit{00} \sim \mathit{99}$. **Value: 00 - 99 (00 = low, 99 = high).** Now press the "**ENTER**" button and repeat for $\complement\ \mathit{2.00}$ Green and $\complement\ \mathit{3.00}$ Blue. Press the "**ENTER**" button and use "**UP**" and "**DOWN**" buttons to choose $\complement F.\mathit{00}$. Press the "**ENTER**" button and use the "**UP**" and "**DOWN**" buttons to select the strobe speed between $\mathit{00} \sim \mathit{99}$. Press the "**ENTER**" button to confirm the setting.
Value: 00 - 99 (00 = slow, 99 = fast). To exit out of any of the above options, press the "**MENU**" button.

Colour macros:

To access the colour macros, press the "**MENU**" button on the front of the unit to show $\complement \mathit{\Pi 00}$ on the LED display. Now press the "**ENTER**" button and use the "**UP**" and "**DOWN**" buttons to select the colour macro required between $\mathit{00} \sim \mathit{15}$. Press the "**ENTER**" button to confirm the setting.
To exit out of any of the above options, press the "**MENU**" button.

$\complement \mathit{\Pi 0 1}$ - Red

$\complement \mathit{\Pi 02}$ - Amber

$\complement \mathit{\Pi 03}$ - Yellow/Orange

$\complement \mathit{\Pi 04}$ - Yellow

$\complement \mathit{\Pi 05}$ - Green

$\complement \mathit{\Pi 06}$ - Turquoise

$\complement \mathit{\Pi 07}$ - Cyan

$\complement \mathit{\Pi 08}$ - Blue

$\complement \mathit{\Pi 09}$ - Lavender

$\complement \mathit{\Pi 10}$ - Mauve

$\complement \mathit{\Pi 11}$ - Magenta

$\complement \mathit{\Pi 12}$ - Pink

$\complement \mathit{\Pi 13}$ - Warm White

$\complement \mathit{\Pi 14}$ - White

$\complement \mathit{\Pi 15}$ - Cool White

Master/slave mode:

To set the master unit, select your desired program (sound active, auto, strobe or fade modes).
To set the other units in slave mode, press the "**MENU**" button on the front of the unit to show _SL RU_
on the LED display. 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.

Colour change mode:

To access the colour change mode, press the "**MENU**" button on the front of the unit to show _JU00_
on the LED display. Now press the "**ENTER**" button and use the "**UP**" and "**DOWN**" buttons to choose
_JU.00_. Press the "**ENTER**" button and use the "**UP**" and "**DOWN**" buttons to select the colour change
speed between _00 ~ 99_. **Value: 00 - 99 (00 = slow, 99 = fast).** Now press the "**ENTER**" button and
use the "**UP**" and "**DOWN**" buttons to choose _CF.00_. Press the "**ENTER**" button and use the "**UP**" and
"**DOWN**" buttons to select the strobe speed between _00 ~ 99_. Press the "**ENTER**" button to confirm
the setting.
Value: 00 - 99 (00 = slow, 99 = fast). To exit out of any of the above options, press the "**MENU**" button.

Fade mode:

To access the fade mode, press the "**MENU**" button on the front of the unit to show _FR00_ on the LED
display. Now press the "**ENTER**" button and use the "**UP**" and "**DOWN**" buttons to choose _FR.00_.
Press the "**ENTER**" button and use the "**UP**" and "**DOWN**" buttons to select the fade speed between
_00 ~ 99_. **Value: 00 - 99 (00 = slow, 99 = fast).** Now press the "**ENTER**" button and use the "**UP**" and
"**DOWN**" buttons to choose _FF.00_. Press the "**ENTER**" button and use the "**UP**" and "**DOWN**" buttons
to select the strobe speed between _00 ~ 99_. Press the "**ENTER**" button to confirm the setting.
Value: 00 - 99 (00 = slow, 99 = fast). To exit out of any of the above options, press the "**MENU**" button.

Auto mode:

To access the auto mode, press the "**MENU**" button on the front of the unit to show _RU 70_ on the
LED display. Now press the "**ENTER**" button and use the "**UP**" and "**DOWN**" buttons to select the auto
program speed between _00 ~ 99_. Press the "**ENTER**" button to confirm the setting.
Value: 00 - 99 (00 = slow, 99 = fast). To exit out of any of the above options, press the "**MENU**" button.

Sound/sound sensitivity:

To access the sound mode, press the "**MENU**" button on the front of the unit to show _SOUN_ on the
LED display. Now press the "**ENTER**" button and use the "**UP**" and "**DOWN**" buttons to select the sound
sensitivity between _00 ~ 99_. Press the "**ENTER**" button to confirm the setting.
Value: 00 - 99 (00 = low, 99 = high). 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 and your DMX controller require a standard 3-pin XLR connector for data input/output, see image below.

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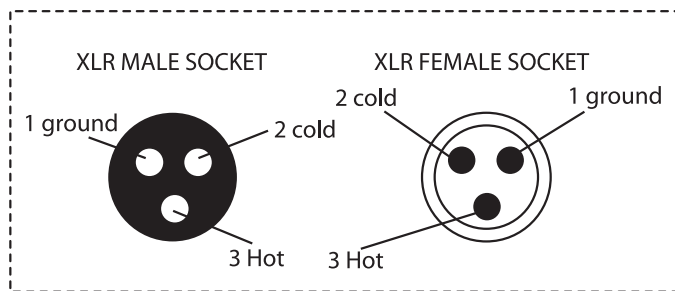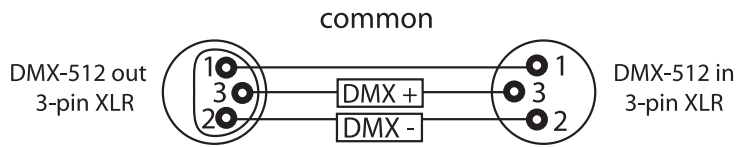
Please quote:

CABL10 – 2m
CABL11 – 5m
CABL12 – 10m

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

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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.

common

DMX-512 out
3-pin XLR

DMX +
DMX -

DMX-512 in
3-pin XLR

XLR MALE SOCKET

XLR FEMALE SOCKET

1 ground
2 cold
3 Hot

2 cold
1 ground
3 Hot

XLR Pin Configuration
Pin 1 = Ground
Pin 2 = Negative
Pin 3 = Postive

Special note:

Line termination:

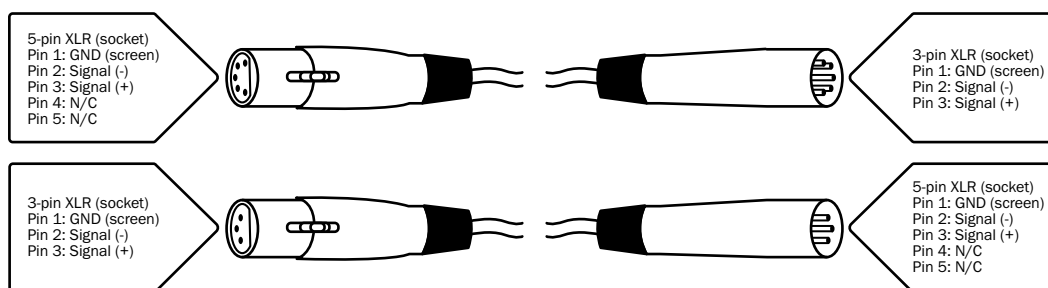When longer runs of cable are used, you may need to use a terminator on the last unit to avoid erratic behaviour.

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 1/4 W) 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 (socket)
Pin 1: GND (screen)
Pin 2: Signal (-)
Pin 3: Signal (+)
Pin 4: N/C
Pin 5: N/C

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

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

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

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.