

# LEDJ

## **Pixel Storm 12 Quad Batten MKII**

### User Manual



Order code: LEDJ293

### WARNING

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

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



### IMPORTANT:

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

- Never let the power cable come into contact with other cables. Handle the power cable and all mains voltage connections with particular caution!
- Never remove warning or informative labels from the unit.
- Do not open the equipment and do not modify the unit.
- Do not connect this equipment to a dimmer pack.
- Do not switch the equipment on and off in short intervals, as this will reduce the system's life.
- Only use the equipment indoors.
- Do not expose to flammable sources, liquids or gases.
- Always disconnect the power from the mains when equipment is not in use or before cleaning! Only handle the power-cable by the plug. Never pull out the plug by pulling the power-cable.
- Make sure that the available mains supply voltage is between 100~240V AC, 50/60Hz.
- Make sure that the power cable is never crimped or damaged. Check the equipment and the power cable periodically.
- If the equipment is dropped or damaged, disconnect the mains power supply immediately and have a qualified engineer inspect the equipment before operating again.
- If the equipment has been exposed to drastic temperature fluctuation (e.g. after transportation), do not connect power or switch it on immediately. The arising condensation might damage the equipment. Leave the equipment switched off until it has reached room temperature.
- If your product fails to function correctly, stop use immediately. Pack the unit securely (preferably in the original packing material), and return it to your Pro Light dealer for service.
- Only use fuses of same type and rating.
- Repairs, servicing and power connection must only be carried out by a qualified technician. THIS UNIT CONTAINS NO USER SERVICEABLE PARTS.
- This lighting fixture is for professional use only - it is not designed for or suitable for household use. The product must be installed by a qualified technician in accordance with local territory regulations. The safety of the installation is the responsibility of the installer. The fixture presents risks of severe injury or death due to fire hazards, electric shock and falls.
- Warning! Risk Group 2 LED product according to EN 62471. Do not view the light output with optical instruments or any device that may concentrate the beam.
- WARRANTY: One year from date of purchase.

### OPERATING DETERMINATIONS

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

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

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

### Pixel Storm 12 Quad Batten MKII

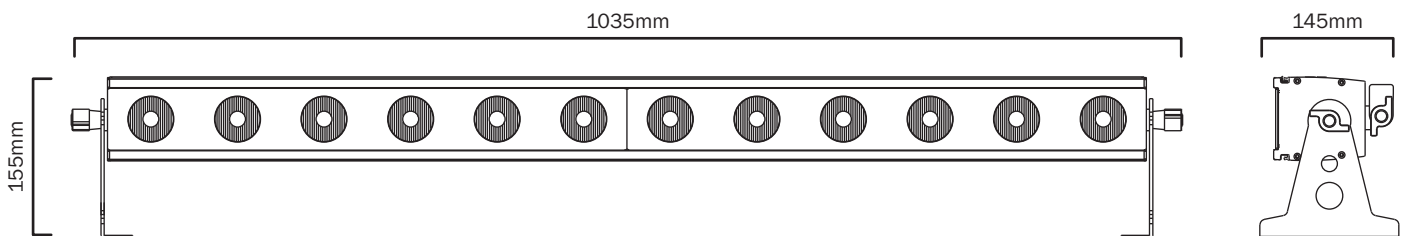
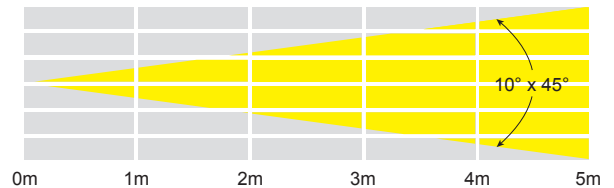
The Pixel Storm 12 MKII is an individually pixel mappable batten featuring 12 x 15W quad-colour LEDs. With a 10° x 45° beam angle and smooth colour mixing from the built-in colour macros, it is superb for wall washing due to its ellipsoidal beam angle. The 4 button LED menu allows selection of the built-in programs, RGBW colour mixing or multiple DMX channel modes to suit many applications.

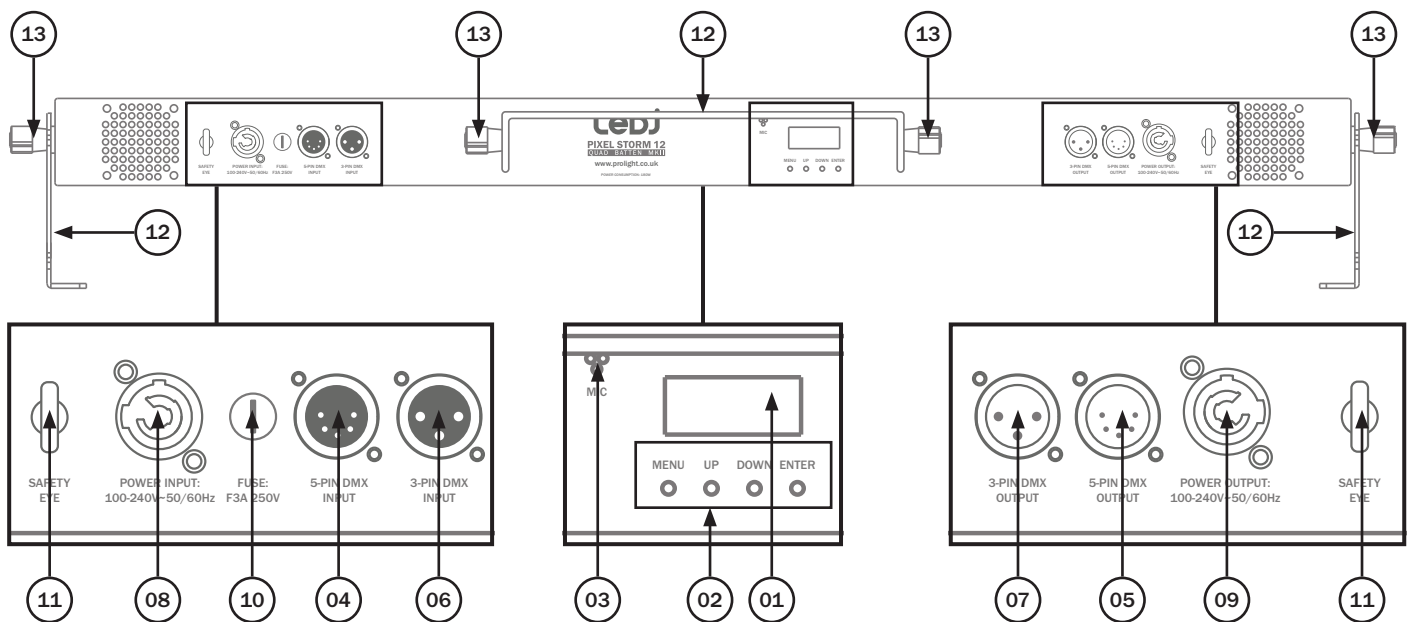


- 12 x 15W quad-colour LEDs (RGBW)
- Beam angle: 10° x 45°
- 3,851 Lux @ 2m (full on)
- 3kHz refresh rate
- Pixel mapping capabilities
- DMX channels: 3/4/6/10/48/54
- Static colour, colour mix, colour change, colour fade, sound active and master/slave modes plus built-in programs
- 0 - 100% dimming and variable strobe
- End brackets and central bracket allow for multiple rigging and floor standing applications
- Supplied eyebrow for uplighting situations to reduce the glare and hide the LEDs
- 4 push button menu with LCD display
- PowerCON input/output
- 3-Pin XLR input/output
- 5-Pin XLR input/output
- Temperature controlled fan cooled for whisper quiet operation

Specifications	Pixel Storm 12 Quad Batten MKII
Power consumption	150W
Power supply	100~240V, 50/60Hz
Fuse	F3A 250V
Dimensions	155 x 1035 x 145mm
Weight	6.5kg
Order code	LEDJ293

10° x 45° - Lux					
FULL ON	15400	3851	1710	963	616
R	2280	571	254	143	91.4
G	3400	851	378	213	136
B	512	128	56.9	32	20.5
W	7800	1948	867	488	312





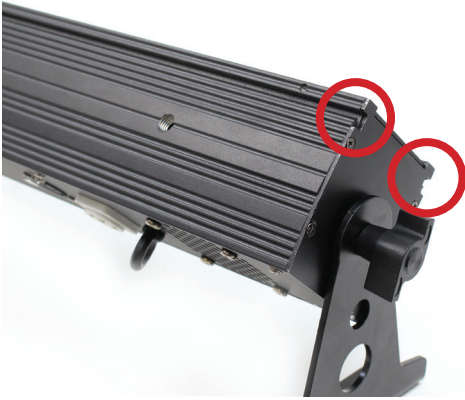
- 01 - LCD display
- 02 - Function buttons
- 03 - Microphone
- 04 - 5-Pin DMX input
- 05 - 5-Pin DMX output
- 06 - 3-Pin DMX input
- 07 - 3-Pin DMX output

- 08 - PowerCON input
- 09 - PowerCON output
- 10 - Fuse F3A 250V
- 11 - Safety eyes
- 12 - Hanging brackets
- 13 - Hanging bracket adjustable knobs

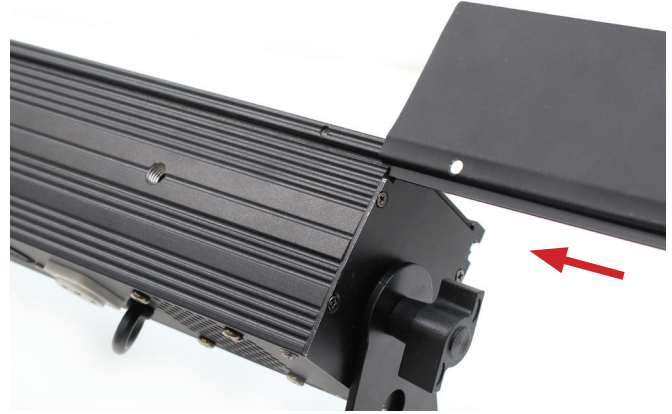
In the box: **1 x fixture,**  
**1 x eyebrow,**  
**1 x power cable**  
**& 1 x user manual**

### Eyebrow installation:

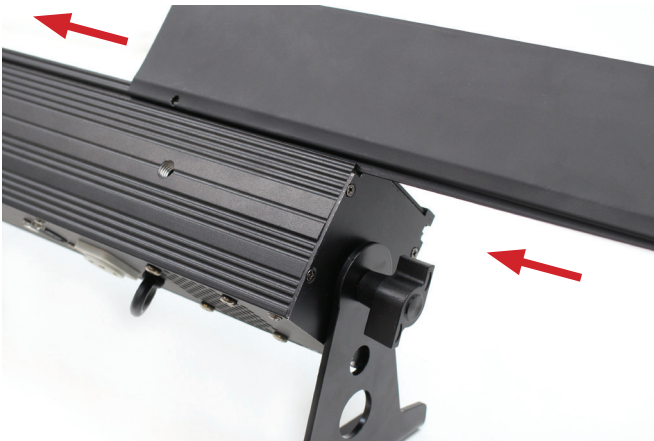
The fixture is supplied with an eyebrow for uplighting situations to reduce the glare and hide the LEDs. See below for installation instructions.



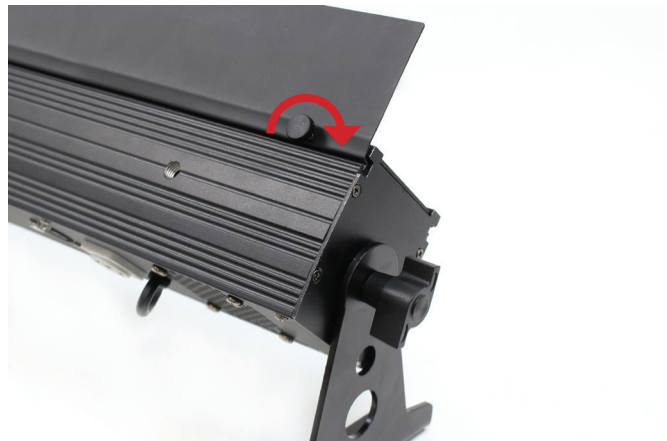
1) The eyebrow can be installed in the grooves on either side of the batten.



2) Insert one end of the eyebrow into the chosen groove.



3) Carefully slide the eyebrow through the groove until the cutout holes for the thumbscrews line up with the threaded holes.



4) Once the holes are lined up insert the thumbscrew on either end of the batten and turn clockwise to tighten.

### Control Panel Menu:

The LCD control panel situated on the rear of the fixture allows the user to access the menu system to adjust the fixtures settings. When the unit has been powered on it will show “**Update wait...**” followed by “**Pixel Storm Q**”. The fixture will then return to its home screen. To access the main menu press the “**MENU**” button and use the “**UP**” and “**DOWN**” buttons until the menu required is highlighted. Pressing the “**ENTER**” button on one of these options allows you to access the sub menu where you use the “**UP**” and “**DOWN**” buttons to select the option/value required.

Once the option/value has been selected press the “**ENTER**” button once more to confirm the setting.

To exit out of any menus, press and hold the “**MENU**” button.

Main Menu	Sub Menu	Options/Values (Default Settings in Bold)		Description
DMX Addr	Addr:	<b>001</b> -512		DMX Address Setting
CH Mode		<b>3CH (3 channel mode)</b>		DMX Channel Setting
		4CH (4 channel mode)		
		6CH (6 channel mode)		
		10CH (10 channel mode)		
		48CH (48 channel mode)		
		54CH (54 channel mode)		
Master		On		Master Mode
		<b>Off</b>		
Slave		<b>SL1 (Slave 1)</b>		Slave Mode
		SL2 (Slave 2)		
ProgMode		ProgM01-32	Sped=000-255	Built-in Programs
ColoMode		Red	000-255	Colour Mix Mode
		Green	000-255	
		Blue	000-255	
		White	000-255	
ColMacro		Colour01-Colour64		Colour Macros
MastDim		<b>000-255</b>		Master Dimmer
Invert		<b>Off</b>		Direction Invert
		On		
Sound		On		Sound Mode (This takes priority over the program speed when on)
		<b>Off</b>		
Sense		0-100 ( <b>80</b> )		Sound Sensitivity Setting
DMXFail		Blackout		DMX Fail Setting
		<b>Hold</b>		
		Program		
DimCurve		<b>Linear</b>		Dimming Curve Settings
		Square		
		Insquare		
		<b>S-curve</b>		

Main Menu	Sub Menu	Options/Values (Default Settings in Bold)	Description
Balance		Red	000-255
		Green	000-255
		Blue	000-255
		White	000-255
AutoTest		Testing	Auto Test
Temp		---	Fixture Temperature
Hours		----	Fixture Run Time
Factory		<b>No</b>	Factory Default Settings
		Yes	
Version		V---	Software Version

### 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	Red (0-100%)
2	000-255	Green (0-100%)
3	000-255	Blue (0-100%)
4	000-255	White (0-100%)

### 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	000-031	Blackout
	032-063	No function
	064-095	Strobe (slow-fast)
	096-127	No function
	128-159	Pulse strobe (slow-fast)
	160-191	No function
	192-223	Random strobe (slow-fast)
	224-255	No function
6	000-255	Master dimmer (0-100%)



### 10 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	No function
	001-004	Colour Macro 1
	005-008	Colour Macro 2
	009-012	Colour Macro 3
	013-016	Colour Macro 4
	017-020	Colour Macro 5
	021-024	Colour Macro 6
	025-028	Colour Macro 7
	029-032	Colour Macro 8
	033-036	Colour Macro 9
	037-040	Colour Macro 10
	041-044	Colour Macro 11
	045-048	Colour Macro 12
	049-052	Colour Macro 13
	053-056	Colour Macro 14
	057-060	Colour Macro 15
	061-064	Colour Macro 16
	065-068	Colour Macro 17
	069-072	Colour Macro 18
	073-076	Colour Macro 19
	077-080	Colour Macro 20
	081-084	Colour Macro 21
	085-088	Colour Macro 22
	089-092	Colour Macro 23
	093-096	Colour Macro 24
	097-100	Colour Macro 25
	101-104	Colour Macro 26
	105-108	Colour Macro 27
	109-112	Colour Macro 28
	113-116	Colour Macro 29
	117-120	Colour Macro 30
	121-124	Colour Macro 31
	125-128	Colour Macro 32
	129-132	Colour Macro 33
	133-136	Colour Macro 34
137-140	Colour Macro 35	

Channel	Value	Function
5 cont.	141-144	Colour Macro 36
	145-148	Colour Macro 37
	149-152	Colour Macro 38
	153-156	Colour Macro 38
	157-160	Colour Macro 40
	161-164	Colour Macro 41
	165-168	Colour Macro 42
	169-172	Colour Macro 43
	173-176	Colour Macro 44
	177-180	Colour Macro 45
	181-184	Colour Macro 46
	185-188	Colour Macro 47
	189-192	Colour Macro 48
	193-196	Colour Macro 49
	197-200	Colour Macro 50
	201-204	Colour Macro 51
	250-208	Colour Macro 52
	209-212	Colour Macro 53
	213-216	Colour Macro 54
	217-220	Colour Macro 55
	221-224	Colour Macro 56
	225-228	Colour Macro 57
	229-232	Colour Macro 58
	233-236	Colour Macro 59
	237-240	Colour Macro 60
	241-244	Colour Macro 61
	245-248	Colour Macro 62
	249-252	Colour Macro 63
	253-255	Colour Macro 64
	6	000-031
032-063		No function
064-095		Strobe (slow-fast)
096-127		No function
128-159		Pulse strobe (slow-fast)
160-191		No function
192-223		Random strobe (slow-fast)
224-255	No function	
7	000-255	Master dimmer (0-100%)
8	000	No function
	001-255	Colour temperature 3600K-7200K



### 10 channel mode cont.:

Channel	Value	Function
9	000-007	No function
	008-014	Program 1
	015-021	Program 2
	022-028	Program 3
	029-035	Program 4
	036-042	Program 5
	043-049	Program 6
	050-056	Program 7
	057-063	Program 8
	064-070	Program 9
	071-077	Program 10
	078-084	Program 11
	085-091	Program 12
	092-098	Program 13
	099-105	Program 14
	106-112	Program 15
113-119	Program 16	
120-126	Program 17	

Channel	Value	Function
9 cont.	127-133	Program 18
	134-140	Program 19
	141-147	Program 20
	148-154	Program 21
	155-161	Program 22
	162-168	Program 23
	169-175	Program 24
	176-182	Program 25
	183-189	Program 26
	190-196	Program 27
	197-203	Program 28
	204-210	Program 29
	211-217	Program 30
	218-224	Program 31
225-231	Program 32	
232-255	Sound active	
10	000-255	Program speed (slow-fast)

### 48 channel mode:

CH1	CH2	CH3	CH4	CH5	CH6	CH7	CH8	CH9
Red 1 (0-100%)	Green 1 (0-100%)	Blue 1 (0-100%)	White 1 (0-100%)	Red 2 (0-100%)	Green 2 (0-100%)	Blue 2 (0-100%)	White 2 (0-100%)	Red 3 (0-100%)

CH10	CH11	CH12	CH13	CH14	CH15	CH16	CH17	CH18
Green 3 (0-100%)	Blue 3 (0-100%)	White 3 (0-100%)	Red 4 (0-100%)	Green 4 (0-100%)	Blue 4 (0-100%)	White 4 (0-100%)	Red 5 (0-100%)	Green 5 (0-100%)

CH19	CH20	CH21	CH22	CH23	CH24	CH25	CH26	CH27
Blue 5 (0-100%)	White 5 (0-100%)	Red 6 (0-100%)	Green 6 (0-100%)	Blue 6 (0-100%)	White 6 (0-100%)	Red 7 (0-100%)	Green 7 (0-100%)	Blue 7 (0-100%)

CH28	CH29	CH30	CH31	CH32	CH33	CH34	CH35	CH36
White 7 (0-100%)	Red 8 (0-100%)	Green 8 (0-100%)	Blue 8 (0-100%)	White 8 (0-100%)	Red 9 (0-100%)	Green 9 (0-100%)	Blue 9 (0-100%)	White 9 (0-100%)

CH37	CH38	CH39	CH40	CH41	CH42	CH43	CH44	CH45
Red 10 (0-100%)	Green 10 (0-100%)	Blue 10 (0-100%)	White 10 (0-100%)	Red 11 (0-100%)	Green 11 (0-100%)	Blue 11 (0-100%)	White 11 (0-100%)	Red 12 (0-100%)

CH46	CH47	CH48
Green 12 (0-100%)	Blue 12 (0-100%)	White 12 (0-100%)

### 54 channel mode:

Channel	Value	Function
1	000-255	Red 1 (0-100%)
2	000-255	Green 1 (0-100%)
3	000-255	Blue 1 (0-100%)
4	000-255	White 1 (0-100%)
5	000-255	Red 2 (0-100%)
6	000-255	Green 2 (0-100%)
7	000-255	Blue 2 (0-100%)
8	000-255	White 2 (0-100%)
9	000-255	Red 3 (0-100%)
10	000-255	Green 3 (0-100%)
11	000-255	Blue 3 (0-100%)
12	000-255	White 3 (0-100%)
13	000-255	Red 4 (0-100%)
14	000-255	Green 4 (0-100%)
15	000-255	Blue 4 (0-100%)
16	000-255	White 4 (0-100%)
17	000-255	Red 5 (0-100%)
18	000-255	Green 5 (0-100%)
19	000-255	Blue 5 (0-100%)
20	000-255	White 5 (0-100%)
21	000-255	Red 6 (0-100%)
22	000-255	Green 6 (0-100%)
23	000-255	Blue 6 (0-100%)
24	000-255	White 6 (0-100%)
25	000-255	Red 7 (0-100%)
26	000-255	Green 7 (0-100%)
27	000-255	Blue 7 (0-100%)
28	000-255	White 7 (0-100%)
29	000-255	Red 8 (0-100%)
30	000-255	Green 8 (0-100%)
31	000-255	Blue 8 (0-100%)
32	000-255	White 8 (0-100%)
33	000-255	Red 9 (0-100%)
34	000-255	Green 9 (0-100%)
35	000-255	Blue 9 (0-100%)
36	000-255	White 9 (0-100%)
37	000-255	Red 10 (0-100%)
38	000-255	Green 10 (0-100%)
39	000-255	Blue 10 (0-100%)
40	000-255	White 10 (0-100%)

Channel	Value	Function
41	000-255	Red 11 (0-100%)
42	000-255	Green 11 (0-100%)
43	000-255	Blue 11 (0-100%)
44	000-255	White 11 (0-100%)
45	000-255	Red 12 (0-100%)
46	000-255	Green 12 (0-100%)
47	000-255	Blue 12 (0-100%)
48	000-255	White 12 (0-100%)
49	000	No function
	001-004	Colour Macro 1
	005-008	Colour Macro 2
	009-012	Colour Macro 3
	013-016	Colour Macro 4
	017-020	Colour Macro 5
	021-024	Colour Macro 6
	025-028	Colour Macro 7
	029-032	Colour Macro 8
	033-036	Colour Macro 9
	037-040	Colour Macro 10
	041-044	Colour Macro 11
	045-048	Colour Macro 12
	049-052	Colour Macro 13
	053-056	Colour Macro 14
	057-060	Colour Macro 15
	237-240	Colour Macro 60
	241-244	Colour Macro 61
	245-248	Colour Macro 62
	249-252	Colour Macro 63
	253-255	Colour Macro 64
	061-064	Colour Macro 16
	065-068	Colour Macro 17
	069-072	Colour Macro 18
	073-076	Colour Macro 19
	077-080	Colour Macro 20
081-084	Colour Macro 21	
085-088	Colour Macro 22	
089-092	Colour Macro 23	
093-096	Colour Macro 24	
097-100	Colour Macro 25	
101-104	Colour Macro 26	

### 54 channel mode cont.:

Channel	Value	Function
49 cont.	105-108	Colour Macro 27
	109-112	Colour Macro 28
	113-116	Colour Macro 29
	117-120	Colour Macro 30
	121-124	Colour Macro 31
	125-128	Colour Macro 32
	129-132	Colour Macro 33
	133-136	Colour Macro 34
	137-140	Colour Macro 35
	141-144	Colour Macro 36
	145-148	Colour Macro 37
	149-152	Colour Macro 38
	153-156	Colour Macro 38
	157-160	Colour Macro 40
	161-164	Colour Macro 41
	165-168	Colour Macro 42
	169-172	Colour Macro 43
	173-176	Colour Macro 44
	177-180	Colour Macro 45
	181-184	Colour Macro 46
	185-188	Colour Macro 47
	189-192	Colour Macro 48
	193-196	Colour Macro 49
	197-200	Colour Macro 50
	201-204	Colour Macro 51
	250-208	Colour Macro 52
	209-212	Colour Macro 53
	213-216	Colour Macro 54
	217-220	Colour Macro 55
	221-224	Colour Macro 56
	225-228	Colour Macro 57
	229-232	Colour Macro 58
	233-236	Colour Macro 59
	237-240	Colour Macro 60
241-244	Colour Macro 61	
245-248	Colour Macro 62	
249-252	Colour Macro 63	
253-255	Colour Macro 64	

Channel	Value	Function
50	000-031	Blackout
	032-063	No function
	064-095	Strobe (slow-fast)
	096-127	No function
	128-159	Pulse strobe (slow-fast)
	160-191	No function
	192-223	Random strobe (slow-fast)
	224-255	No function
	51	000-255
52	000	No function
	001-255	Colour temperature 3600K-7200K
53	000-007	No function
	008-014	Program 1
	015-021	Program 2
	022-028	Program 3
	029-035	Program 4
	036-042	Program 5
	043-049	Program 6
	050-056	Program 7
	057-063	Program 8
	064-070	Program 9
	071-077	Program 10
	078-084	Program 11
	085-091	Program 12
	092-098	Program 13
	099-105	Program 14
	106-112	Program 15
	113-119	Program 16
	120-126	Program 17
	127-133	Program 18
	134-140	Program 19
	141-147	Program 20
	148-154	Program 21
	155-161	Program 22
	162-168	Program 23
	169-175	Program 24
	176-182	Program 25
183-189	Program 26	

### 54 channel mode cont.:

Channel	Value	Function
53 cont.	190-196	Program 27
	197-203	Program 28
	204-210	Program 29
	211-217	Program 30
	218-224	Program 31
	225-231	Program 32
	232-255	Sound active
54	000-255	Program speed (slow-fast)

### Setting the DMX address:

The DMX mode enables the use of a universal DMX controller. Each fixture requires a “start address” from 1- 511. A fixture requiring one or more channels for control begins to read the data on the channel indicated by the start address. For example, a fixture that occupies or uses 7 channels of DMX and was addressed to start on DMX channel 100, would read data from channels: 100,101,102,103,104,105 and 106. Choose a start address so that the channels used do not overlap. E.g. the next unit in the chain starts at 107.

### DMX 512:

DMX (Digital Multiplex) is a universal protocol used as a form of communication between intelligent fixtures and controllers. A DMX controller sends DMX data instructions from the controller to the fixture. DMX data is sent as serial data that travels from fixture to fixture via the DATA “IN” and DATA “OUT” XLR terminals located on all DMX fixtures (most controllers only have a data “out” terminal).

### DMX linking:

DMX is a language allowing all makes and models of different manufactures to be linked together and operate from a single controller, as long as all fixtures and the controller are DMX compliant. To ensure proper DMX data transmission, when using several DMX fixtures try to use the shortest cable path possible. The order in which fixtures are connected in a DMX line does not influence the DMX addressing. For example; a fixture assigned to a DMX address of 1 may be placed anywhere in a DMX line, at the beginning, at the end, or anywhere in the middle. When a fixture is assigned a DMX address of 1, the DMX controller knows to send DATA assigned to address 1 to that unit, no matter where it is located in the DMX chain.

### DATA cable (DMX cable) requirements (for DMX operation):

This fixture can be controlled via DMX-512 protocol. The DMX address is set on the 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**

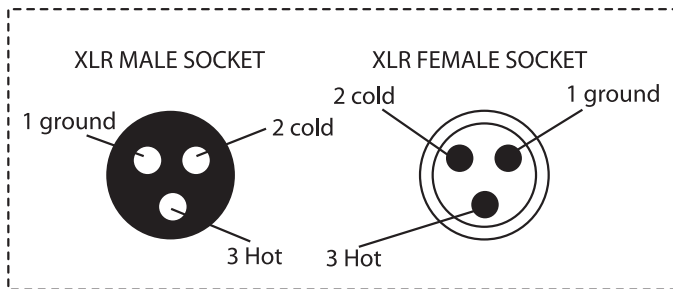
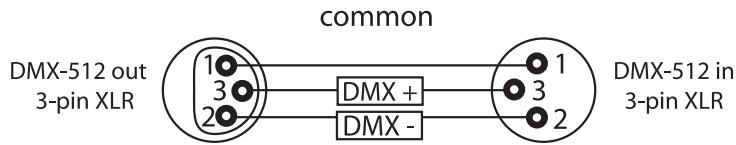
**CABL11 – 5m**

**CABL12 – 10m**

**Note: DMX cable must be daisy chained and cannot be split.**

**Notice:**

Be sure to follow the diagrams below when making your own cables. Do not connect the cables shield conductor to the ground lug or allow the shield conductor to come in contact with the XLRs outer casing. Grounding the shield could cause a short circuit and erratic behaviour.



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.

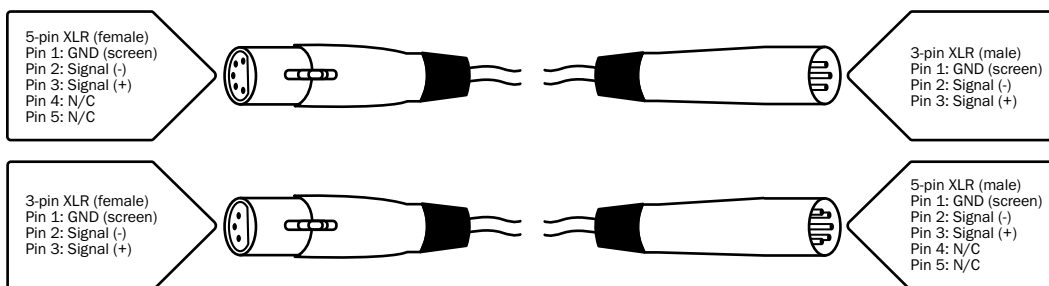
**Using a cable terminator will decrease the possibilities of erratic behaviour.**

**(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.





***Correct Disposal of this Product  
(Waste Electrical & Electronic Equipment)***

**(Applicable in the European Union and other European countries  
with separate collection systems)**

This marking shown on the product or its literature, indicates that it should not be disposed with other household wastes at the end of its working life. To prevent possible harm to the environment or human health from uncontrolled waste disposal, please separate this from other types of wastes and recycle it responsibly to promote the sustainable reuse of material resources.

Household users should contact either the retailer where they purchased this product, or their local government office, for details of where and how they can take this item for environmentally safe recycling.

Business users should contact their supplier and check the terms and conditions of the purchase contract. This product should not be mixed with other commercial wastes for disposal.







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