elumen8

Meteor 150 RGBW IP Pixel Batten

User Manual

Order code: ELUM057

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 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 READ THE BELOW CAREFULLY BEFORE USING THE FIXTURE IN OUTDOOR/EXTREME ENVIRONMENTS

IP Rating:

The IP (International Protection) rating classifies and rates the degree of protection provided against intrusion of foreign objects such as dust and water into housings and electrical enclosures.

The rating consists of the letters IP followed by two digits (i.e. IP65) where the numbers define the level of protection. The first digit (solids) stands for the level of protection the enclosure provides against solid bodies, whilst the second digit (liquids) stands for the degree of protection of the equipment inside the enclosure against water.
An IP65 rated fixture is one which has been designed and tested to protect from all ingress of dust (6) and water projected by low pressure jets (6.3mm) from any angle (5).

Marine/Coastal Installations:

Although this fixture has an IP rating it is NOT suitable for installation in a coastal/marine environment. Installing this fixture in a coastal/marine environment could cause corrosion and excessive wear to the internal and/or external components. Any damages, faults or performance issues resulting from the installation in one of the environments listed above will void the manufacturers warranty and will NOT be subject to any warranty claims, parts or repairs.

IMPORTANT INFORMATION!

If this fixture is installed in extreme outdoor and/or wet conditions, it MUST be powered ON and operated for a minimum of 30 minutes every 1-2 weeks. Excessive usage in extreme outdoor and/or wet conditions without a consistent usage cycle as described above can lead to component damage and/or a reduced fixture lifetime. Any damage to the fixture found to be a direct result of not following the above guidelines will void the manufacturers warranty and will NOT be subject to any warranty claims, parts or repairs.

Please ENSURE all connections are sealed with the rubber caps if provided and the correct cables are used and connected correctly to prevent dust and/or water ingress, condensation and/or corrosion.

Meteor 150 RGBW IP Pixel Batten

The Elumen8 Meteor 150 RGBW IP Pixel Batten features high output LEDs housed in a rugged rental-ready IP65 housing, suitable for indoor and temporary outdoor applications. The 20° x 30° beam angle smoothly washes facades in deep rich colours or pastel tones whilst the individually addressable LEDs allow for a range of pixel effects to be created on-stage. The Meteor 150 Batten can be controlled via DMX or via the 4 button menu system allowing access to manual, auto and master/slave modes. The fixture boasts convection cooling for completely silent operation whilst the integral mounting brackets featuring quick-release omega clamps makes rigging and installation a breeze.

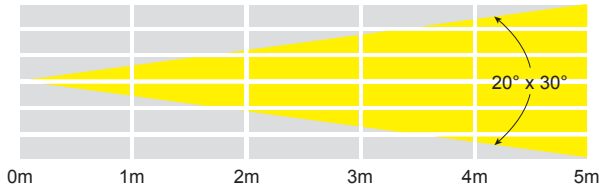
- 2 year warranty
- 15 x 10W quad-colour LEDs (RGBW)
- Beam angle: 20° x 30°
- 3,267 Lux @ 2m (full on)
- Refresh rate: 1kHz, 4kHz, 8kHz or 16kHz selectable
- Full pixel mapping capabilities
- DMX channels: 4/6/9/60 or 65 selectable
- Static colour, colour change, colour fade and master/slave modes
- 0 - 100% dimming
- 4 dimming curves: Linear, square law, inverse square law and S-curve
- Variable strobe
- RDM (Remote Device Management)
- 4 button menu with OLED display
- Bracket allows for multiple rigging or floor standing applications
- Quick release omega clamps included
- PowerTwist TR1 input/output
- IP rated 5-Pin XLR input/output
- Convection cooled

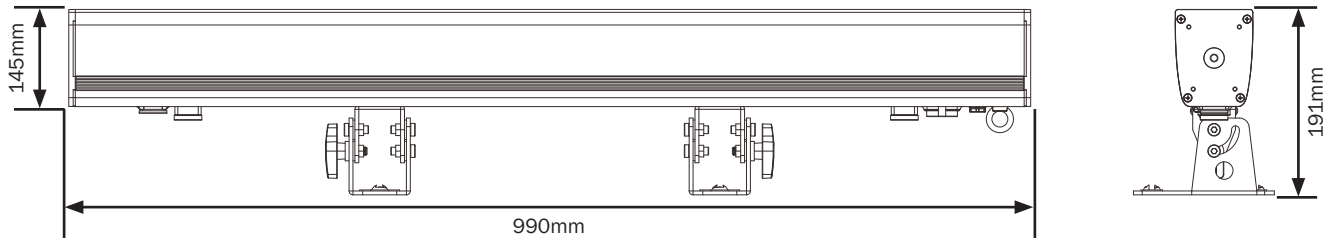
Removable base plate
included enables omega clamps to be rigged
multiple positions to avoid truss cross braces

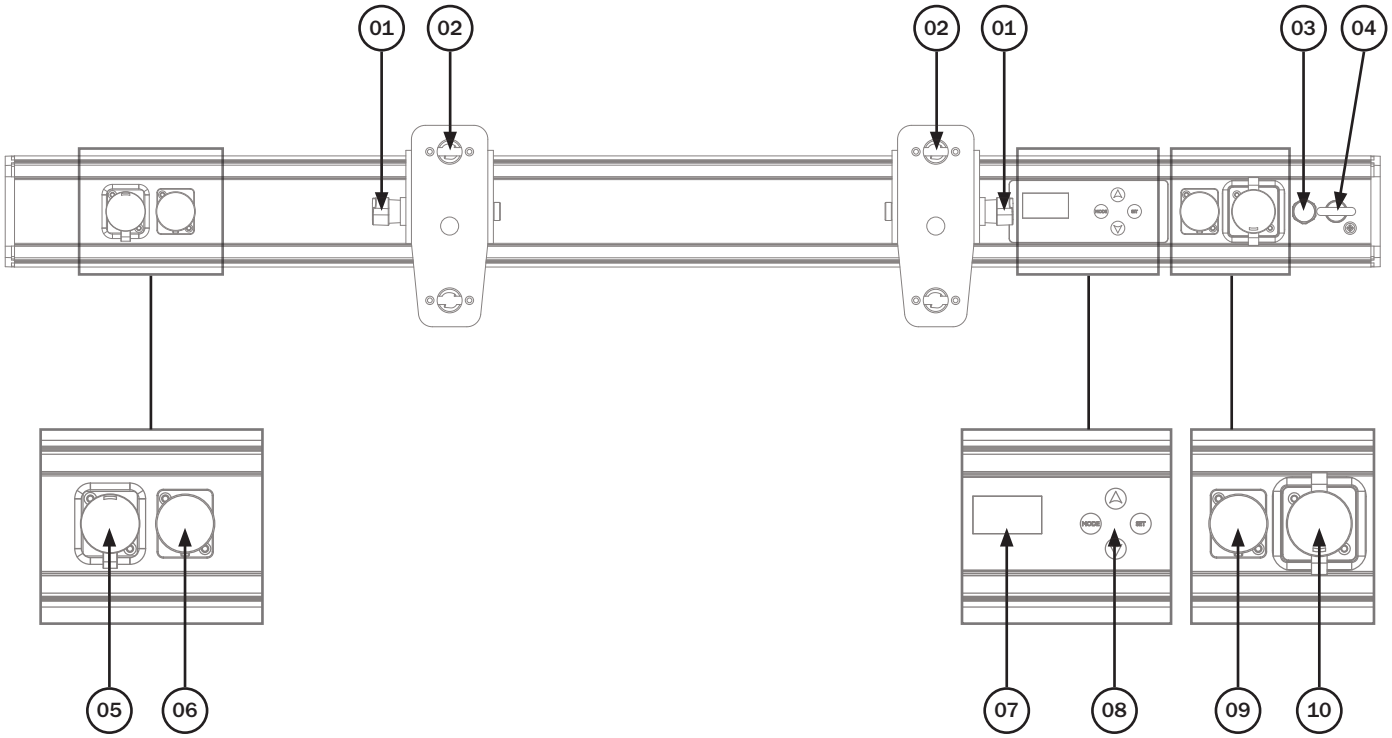
Specifications	Meteor 150 RGBW IP Pixel Batten
Power consumption	130W
Power supply	100~240V, 50/60Hz
IP rating	IP65
Dimensions	191 x 990 x 145mm
Weight	7.3kg
Order code	ELUM057

20° x 30° - Lux

FULL ON	13068	3267	1452	817	523
R	2808	702	312	175	112
G	6680	1670	742	417	267
B	1316	329	146	82	53
W	8340	2085	927	521	333







01 - Bracket tightening knobs
02 - Mounting brackets
03 - Pressure relief valve
04 - Safety eye
05 - PowerTwist TR1 input
06 - IP rated 5-Pin XLR input
07 - OLED display
08 - Function buttons
09 - PowerTwist TR1 output
10 - IP rated 5-Pin XLR output

In the box: **1 x fixture, 2 x omega clamps, 1 x base plate & 1 x power cable**

Installation:

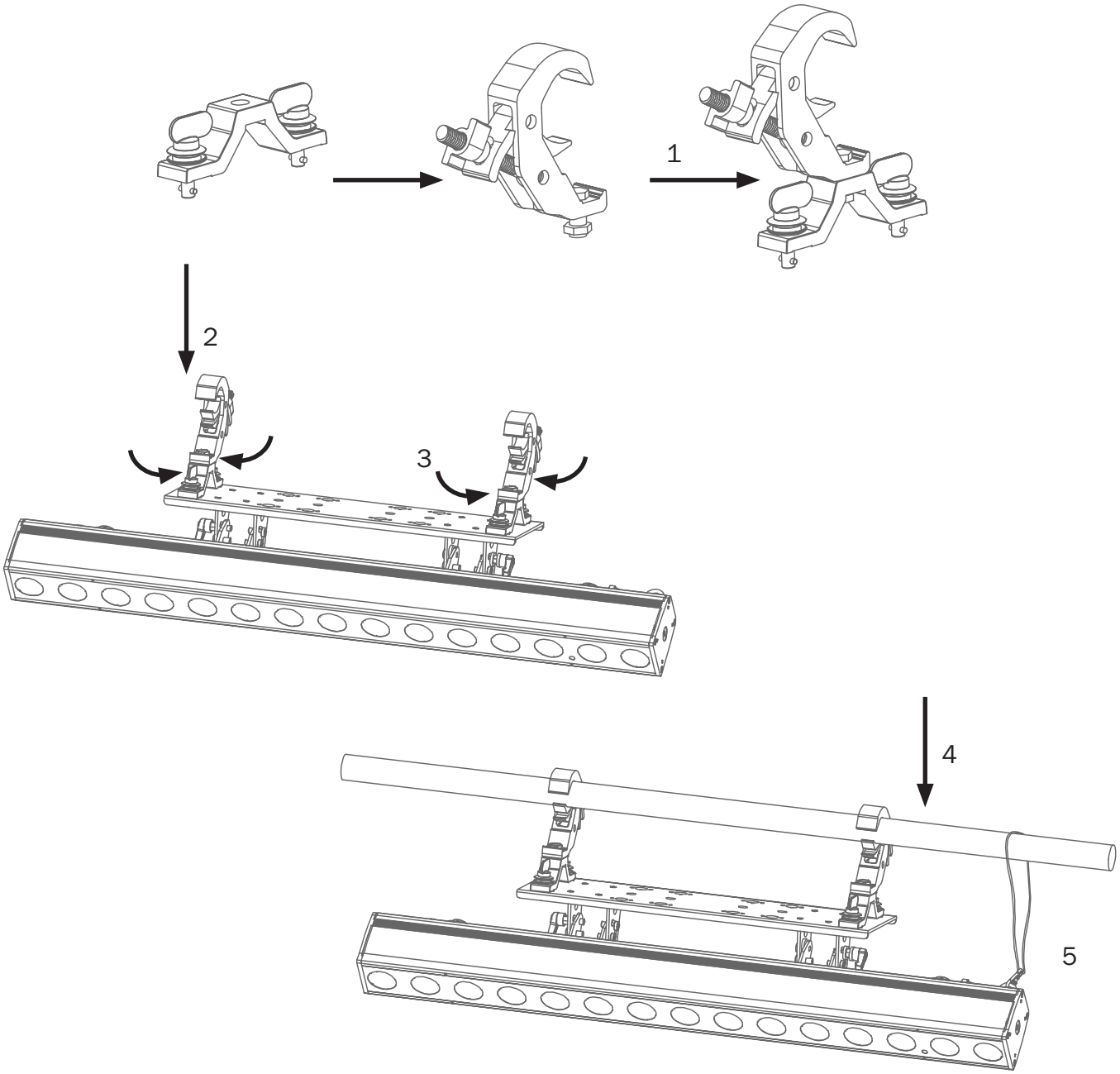
1. Fasten each clamp to the omega clamps with a bolt and lock nut through the hole in the omega clamp.

2. Align and insert the omega clamp quick-lock fasteners with the respective holes on the bottom of the units feet, or in the desired location on the supplied removable base plate.

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 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.



IMPORTANT! PLEASE NOTE: The OLED display for this fixture has a menu locking function where after 30 seconds of inactivity it will lock. To unlock the menu hold the "**MODE**" and "**SET**" buttons for 3 seconds.

Main Menu	Sub Menu	Options/Values	Description
1. Auto	**Yes**		Auto Mode
	No		
2. Program	Mode	**01**-16	Built-in program
	Colour (Mode: 1)	**01**-33	Static colour mode
	Speed (Mode: 2-16)	1-100 (**81**)	Speed
	Strobe	**00**-99	Strobe
3. DMX	Address	**001**-512	DMX Address Setting
	Channels	**4**	DMX Channel Modes
		6	
		10	
		60	
		66	
4. Slave	**Yes**		Slave Mode
	No		
5. Dimmer	Red	000-**255**	Manual Dimming mode
	Green	000-**255**	
	Blue	000-**255**	
	White	000-**255**	

Main Menu	Sub Menu	Options/Values	Description
6. Settings	1. Curves Select	1 Linear	Dimming Curve Setting
		2 Square Law	
		3 Inv Square Law	
		4 S-Type	
	2. Pixel Dir	**Normal**	Pixel Direction
		Inverted	
	3. PWM Frequency	16K	Refresh Rate Setting
		8K	
		4K	
		1K	
	4. DMX Fail	**Off**	DMX Fail Setting
		Hold	
		Dimmer	
		Program	
	5. DMX Sync	**On**	DMX Synchronisation Setting
		Off	
	6. Lock	**On**	Lock Screen
		Off	
	7. Key Backlight	**On**	Backlight Setting
		Off	
	8. Factory	Yes	Restore Factory Setting
		No	
7. Information		Version: x.x	Fixture Information
		Temperature: xx°C	
		Work Time:xxxxxh	
		UID:xxxxxxxxxxx	

4 channel mode:

Channel	Value	Function
1	000-255	Red dimmer (0-100%)
2	000-255	Green dimmer (0-100%)
3	000-255	Blue dimmer (0-100%)
4	000-255	White dimmer (0-100%)

6 channel mode:

Channel	Value	Function
1	000-255	Master dimmer (0-100%)
2	000-010	No function
	011-127	Strobe (slow-fast)
3	000-255	Red dimmer (0-100%)
4	000-255	Green dimmer (0-100%)
5	000-255	Blue dimmer (0-100%)
6	000-255	White dimmer (0-100%)

10 channel mode:

Channel	Value	Function
1	000-255	Master dimmer (0-100%)
2	000-010	No function
	011-127	Strobe (slow-fast)
3	000-007	No function
	008-013	Colour 1 (R255 G000 B000 W000)
	014-020	Colour 2 (R255 G000 B000 W100)
	021-027	Colour 3 (R255 G000 B000 W200)
	028-034	Colour 4 (R255 G050 B000 W000)
	035-041	Colour 5 (R255 G150 B000 W000)
	042-048	Colour 6 (R255 G255 B000 W000)
	049-055	Colour 7 (R255 G255 B000 W075)
	056-062	Colour 8 (R000 G255 B000 W255)
	063-069	Colour 9 (R000 G255 B000 W150)
	070-076	Colour 10 (R000 G255 B000 W050)
	077-083	Colour 11 (R000 G255 B000 W000)
	084-090	Colour 12 (R000 G255 B050 W000)
	091-097	Colour 13 (R000 G255 B150 W000)
	098-104	Colour 14 (R000 G255 B255 W000)
	105-111	Colour 15 (R000 G255 B255 W075)
	112-118	Colour 16 (R000 G255 B255 W150)
	119-125	Colour 17 (R000 G100 B255 W255)
	126-132	Colour 18 (R000 G000 B255 W100)
	133-139	Colour 19 (R000 G000 B255 W050)
	140-146	Colour 20 (R000 G000 B255 W000)
	147-153	Colour 21 (R075 G000 B255 W000)
	154-160	Colour 22 (R160 G000 B255 W000)
	161-167	Colour 23 (R255 G000 B255 W000)
	168-174	Colour 24 (R255 G000 B175 W000)
	175-181	Colour 25 (R255 G000 B100 W000)
	182-188	Colour 26 (R255 G000 B100 W050)
	189-195	Colour 27 (R255 G000 B025 W050)
	196-202	Colour 28 (R255 G000 B025 W025)
	203-209	Colour 29 (R255 G000 B025 W000)
	210-216	Colour 30 (R000 G000 B000 W255)
	217-223	Colour 31 (R075 G075 B000 W255)
	224-230	Colour 32 (R000 G000 B100 W255)
	231-255	Colour 33 (R255 G255 B255 W255)

Channel	Value	Function
4	000-015	No function
	016-031	Colour Change 1
	032-047	Colour Change 2
	048-063	Colour Change 3
	064-079	Colour Change 4
	080-095	Colour Change 5
	096-111	Colour Change 6
	112-127	Colour Change 7
	128-143	Colour Change 8
	144-159	Colour Fade 1
	160-175	Colour Fade 2
	176-191	Colour Fade 3
	192-207	Colour Fade 4
	208-223	Colour Fade 5
	224-239	Colour Fade 6
	240-255	Colour Fade 7
5	000-255	Speed (slow-fast)
6	000-255	Red dimmer (0-100%)
7	000-255	Green dimmer (0-100%)
8	000-255	Blue dimmer (0-100%)
9	000-255	White dimmer (0-100%)
10 (Hold for 2 secs)	000-015	No function
	016-039	Pixel direction normal
	040-063	Pixel direction invert
	064-087	Linear
	088-111	Square law
	112-135	Inv square law
	136-159	S-Type
	160-183	Refresh rate 1kHz
	184-207	Refresh rate 4kHz
	208-231	Refresh rate 8kHz
	232-255	Refresh rate 16kHz

60 channel mode:

Channel	Value	Function
1	000-255	Red dimmer 1 (0-100%)
2	000-255	Green dimmer 1 (0-100%)
3	000-255	Blue dimmer 1 (0-100%)
4	000-255	White dimmer 1 (0-100%)
5	000-255	Red dimmer 2 (0-100%)
6	000-255	Green dimmer 2 (0-100%)
7	000-255	Blue dimmer 2 (0-100%)
8	000-255	White dimmer 2 (0-100%)
...	...	...
53	000-255	Red dimmer 14 (0-100%)
54	000-255	Green dimmer 14 (0-100%)
55	000-255	Blue dimmer 14 (0-100%)
56	000-255	White dimmer 14 (0-100%)
57	000-255	Red dimmer 15 (0-100%)
58	000-255	Green dimmer 15 (0-100%)
59	000-255	Blue dimmer 15 (0-100%)
60	000-255	White dimmer 15 (0-100%)

66 channel mode:

Channel	Value	Function
1	000-255	Master dimmer (0-100%)
2	000-010	No function
	011-127	Strobe (slow-fast)
3	000-007	No function
	008-013	Colour 1 (R255 G000 B000 W000)
	014-020	Colour 2 (R255 G000 B000 W100)
	021-027	Colour 3 (R255 G000 B000 W200)
	028-034	Colour 4 (R255 G050 B000 W000)
	035-041	Colour 5 (R255 G150 B000 W000)
	042-048	Colour 6 (R255 G255 B000 W000)
	049-055	Colour 7 (R255 G255 B000 W075)
	056-062	Colour 8 (R000 G255 B000 W255)
	063-069	Colour 9 (R000 G255 B000 W150)
	070-076	Colour 10 (R000 G255 B000 W050)
	077-083	Colour 11 (R000 G255 B000 W000)
	084-090	Colour 12 (R000 G255 B050 W000)
	091-097	Colour 13 (R000 G255 B150 W000)
	098-104	Colour 14 (R000 G255 B255 W000)
	105-111	Colour 15 (R000 G255 B255 W075)
	112-118	Colour 16 (R000 G255 B255 W150)
	119-125	Colour 17 (R000 G100 B255 W255)
	126-132	Colour 18 (R000 G000 B255 W100)
	133-139	Colour 19 (R000 G000 B255 W050)
	140-146	Colour 20 (R000 G000 B255 W000)
	147-153	Colour 21 (R075 G000 B255 W000)
	154-160	Colour 22 (R160 G000 B255 W000)
	161-167	Colour 23 (R255 G000 B255 W000)
	168-174	Colour 24 (R255 G000 B175 W000)
	175-181	Colour 25 (R255 G000 B100 W000)
	182-188	Colour 26 (R255 G000 B100 W050)
	189-195	Colour 27 (R255 G000 B025 W050)
	196-202	Colour 28 (R255 G000 B025 W025)
	203-209	Colour 29 (R255 G000 B025 W000)
	210-216	Colour 30 (R000 G000 B000 W255)
	217-223	Colour 31 (R075 G075 B000 W255)
	224-230	Colour 32 (R000 G000 B100 W255)
	231-255	Colour 33 (R255 G255 B255 W255)

66 channel mode (cont.):

Channel	Value	Function
4	000-015	No function
	016-031	Colour Change 1
	032-047	Colour Change 2
	048-063	Colour Change 3
	064-079	Colour Change 4
	080-095	Colour Change 5
	096-111	Colour Change 6
	112-127	Colour Change 7
	128-143	Colour Change 8
	144-159	Colour Fade 1
	160-175	Colour Fade 2
	176-191	Colour Fade 3
	192-207	Colour Fade 4
	208-223	Colour Fade 5
	224-239	Colour Fade 6
	240-255	Colour Fade 7
5	000-255	Speed (slow-fast)
6	000-255	Red dimmer 1 (0-100%)
7	000-255	Green dimmer 1 (0-100%)
8	000-255	Blue dimmer 1 (0-100%)
9	000-255	White dimmer 1 (0-100%)
10	000-255	Red dimmer 2 (0-100%)
11	000-255	Green dimmer 2 (0-100%)
12	000-255	Blue dimmer 2 (0-100%)
13	000-255	White dimmer 2 (0-100%)
...	...	...
58	000-255	Red dimmer 14 (0-100%)
59	000-255	Green dimmer 14 (0-100%)
60	000-255	Blue dimmer 14 (0-100%)
61	000-255	White dimmer 14 (0-100%)
62	000-255	Red dimmer 15 (0-100%)
63	000-255	Green dimmer 15 (0-100%)
64	000-255	Blue dimmer 15 (0-100%)
65	000-255	White dimmer 15 (0-100%)

Channel	Value	Function
66 (Hold for 2 secs)	000-015	No function
	016-039	Pixel direction normal
	040-063	Pixel direction invert
	064-087	Linear
	088-111	Square law
	112-135	Inv square law
	136-159	S-Type
	160-183	Refresh rate 1kHz
	184-207	Refresh rate 4kHz
	208-231	Refresh rate 8kHz
	232-255	Refresh rate 16kHz

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 either a standard 3-pin or 5-pin XLR connector for data input/output, see images below.

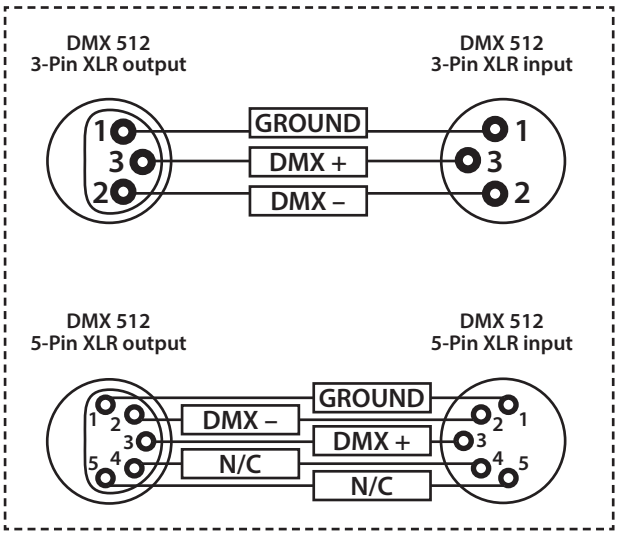
Further DMX cables can be purchased from all good sound and lighting suppliers or Prolight Concepts dealers.
Please quote: 5-Pin: **CABL185 – 2m** **CABL187 – 5m** **CABL188 – 10m**

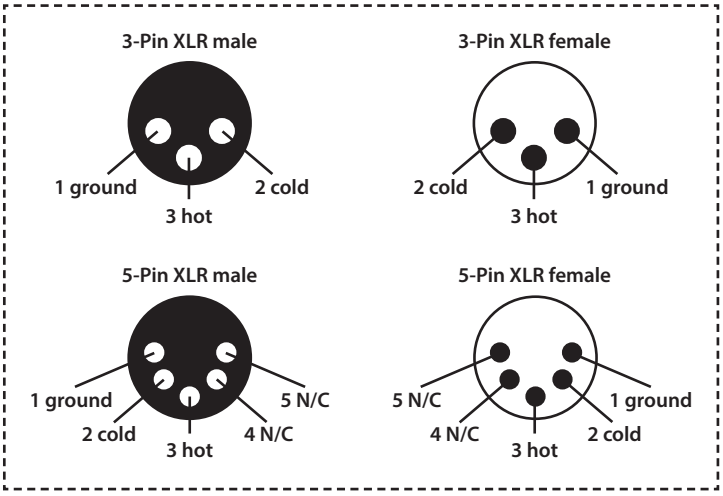
Also remember that DMX cable must be daisy chained and cannot be split.

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.

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

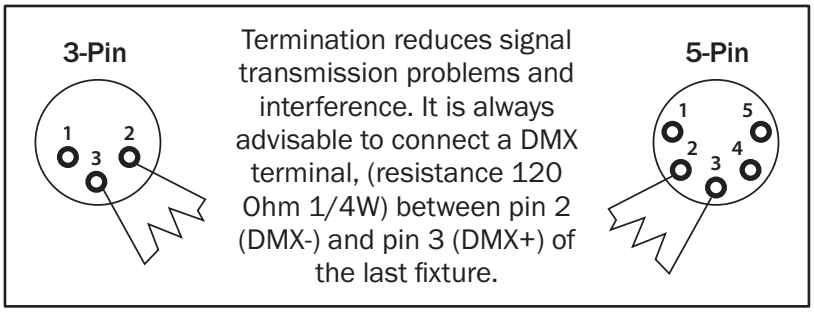




Line termination:

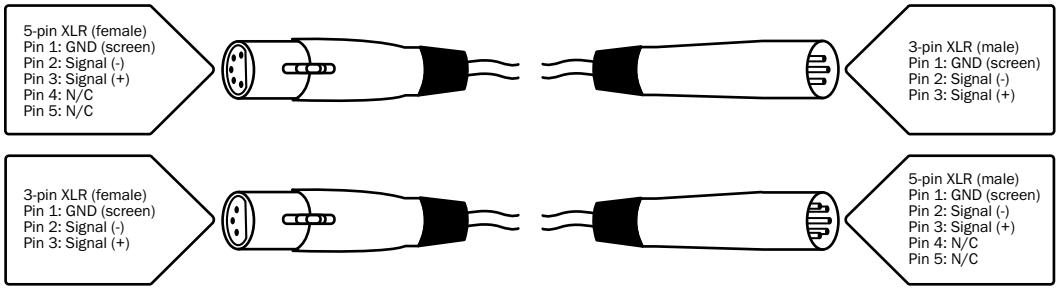
When longer runs of cable are used, you may need to use a terminator on the last unit to avoid erratic behaviour.

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:

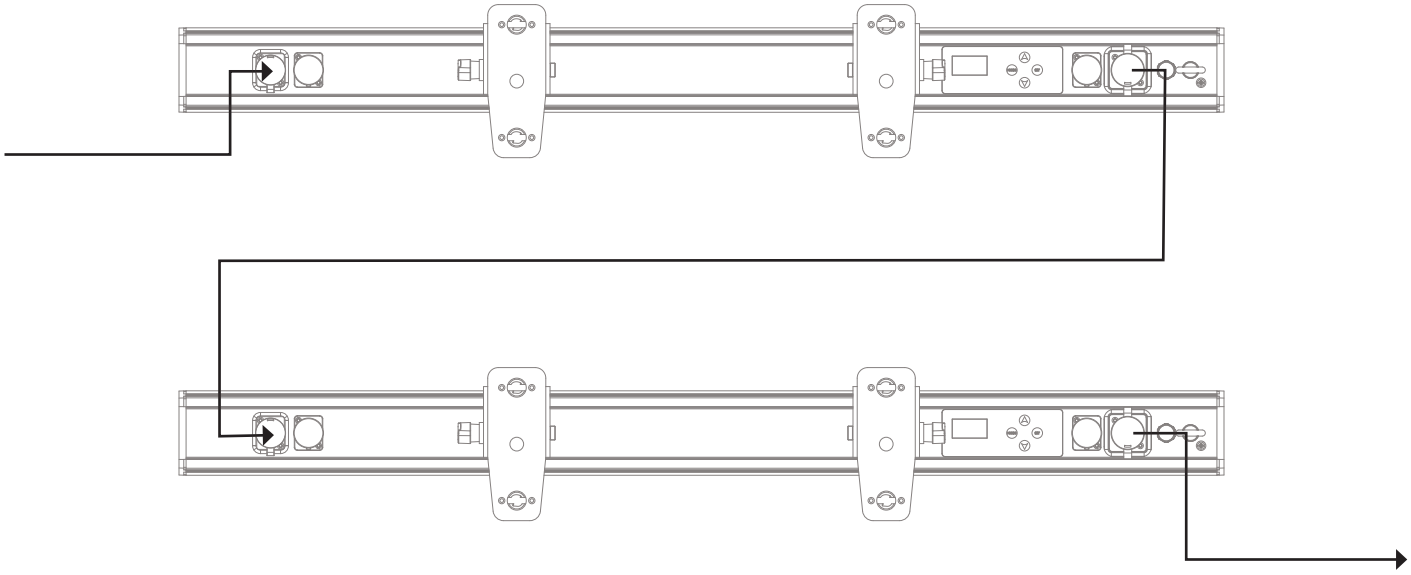
Some manufactures use 5-pin XLR connectors for data transmission in place of 3-pin. 5-pin XLR fixtures may be implemented in a 3-pin XLR DMX line. When inserting standard 5-pin XLR connectors in to a 3-pin line a cable adaptor must be used. The diagram below details the correct cable conversion.



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 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 Meteor 150 RGBW IP Pixel Batten 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.

CE