

elumen8

Mira 450 IP Pixel Batten

User Manual



Order codes: ELUM721

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 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 Prolight dealer for service.
- Only use fuses of same type and rating.
- We recommend this fixture should be serviced at least once every 3 months to prevent build-up of dust, dirt and debris that could affect the fixtures operation.
- 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.
- High power lighting fixtures are capable of producing powerful, concentrated beams of light that can create a fire hazard or a risk of eye injury if the safety precautions are not followed.
- WARRANTY: Two years 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.

This fixture falls under Protection Class 1, therefore it has to be connected to a mains socket with a protective earthing connection.

Risk group 2, RG-2: CAUTION!
Do not stare at exposed LED in operation as it may damage/be harmful to the eyes. Avoid looking directly into the light source.

CAUTION!
The maximum ambient temperature (T_a) of 40° must not be exceeded.

Mira 450 IP Pixel Batten



The Elumen8 Mira 450 IP Pixel Batten is a high-output, IP65-rated fixture designed for the most demanding of environments. Housing 18 x 25W RGBL quad-colour LEDs, it delivers an intense 6° beam, with optional 20°, 45°, and 60° lenses available for broader wash coverage. The batten supports full pixel mapping and is controllable via DMX, Art-Net, or sACN with selectable refresh rates up to 24kHz for flicker-free performance on camera. Built for touring and fixed installs alike, the Mira 450 features fully rotatable 4-position mounting brackets for floor-standing or truss rigging, and includes quick-release omega clamps for fast setup. Units can be seamlessly joined side-by-side or stacked vertically using the built-in tool-free link system, allowing for uninterrupted linear or grid-style arrays. With convection cooling and rugged IP-rated connectors, the Mira 450 is the ideal choice for outdoor shows, stage productions, and architectural lighting.



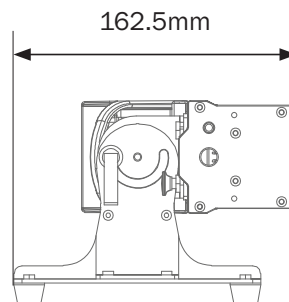
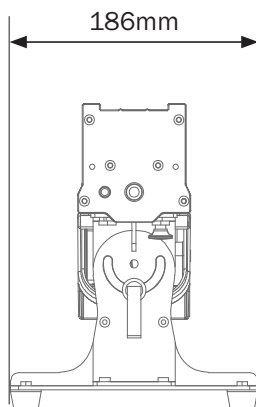
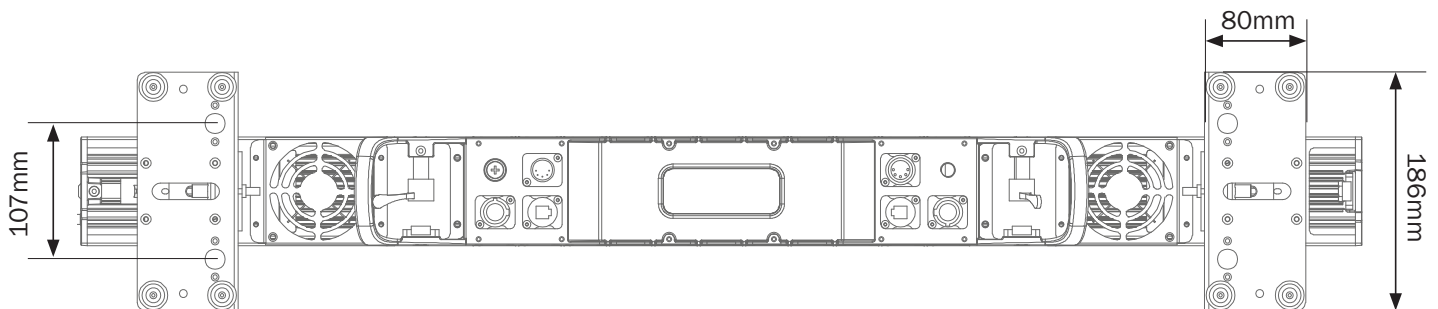
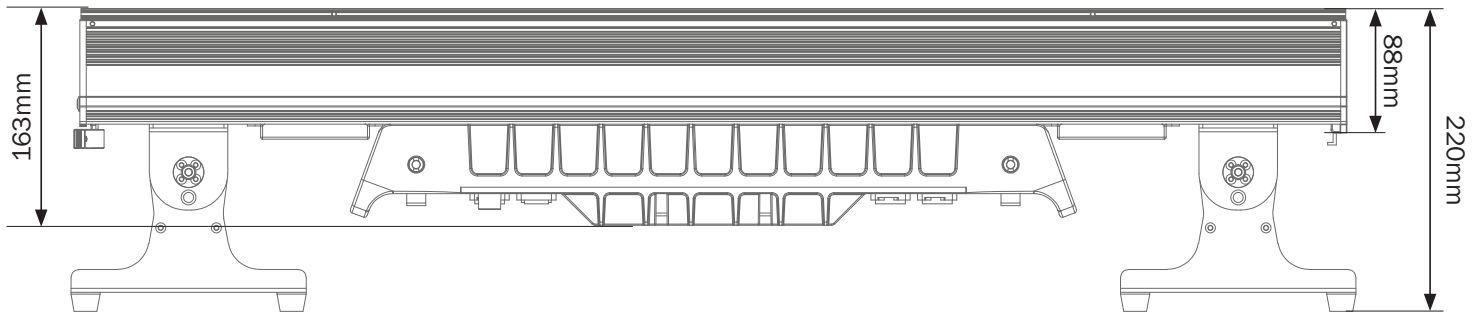
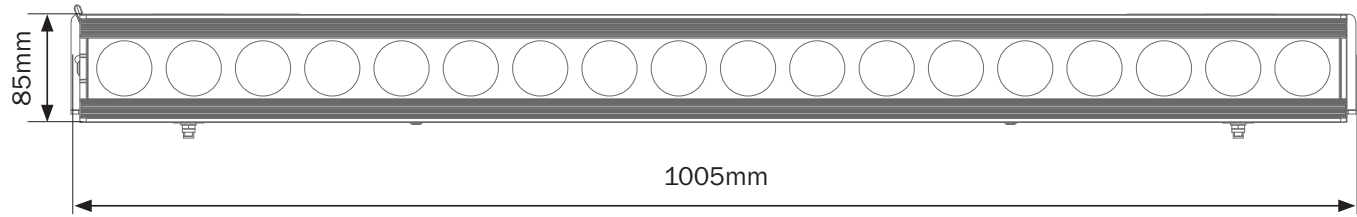
- 2 year warranty
- 18 x 25W quad-colour LEDs (RGBL)
- Beam angle: 6°
- 47258 Lux @ 2m (full on)
- Refresh rate: 800Hz, 1.2kHz, 2kHz, 4kHz, 6kHz, 8kHz, 16kHz or 24kHz selectable
- Full pixel mapping capabilities
- Control protocols: DMX, Art-net and sACN
- DMX channels: 4/7/9/20/75 or 79 selectable
- Features integral Art-Net to DMX for control of DMX fixtures downstream on the same universe
- Static colour, colour temperature and manual modes
- Built-in colour macros and programs
- Colour temperature presets
- 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 LCD display
- 4 position brackets allows for multiple rigging or floor standing applications and can be rotated at 90° increments
- Quick release omega clamps included
- Multiple units can be seamlessly joined tool-free side-by-side or stacked
- PowerTwist TR1 input/output
- IP rated 5-Pin XLR input/output
- Convection cooled

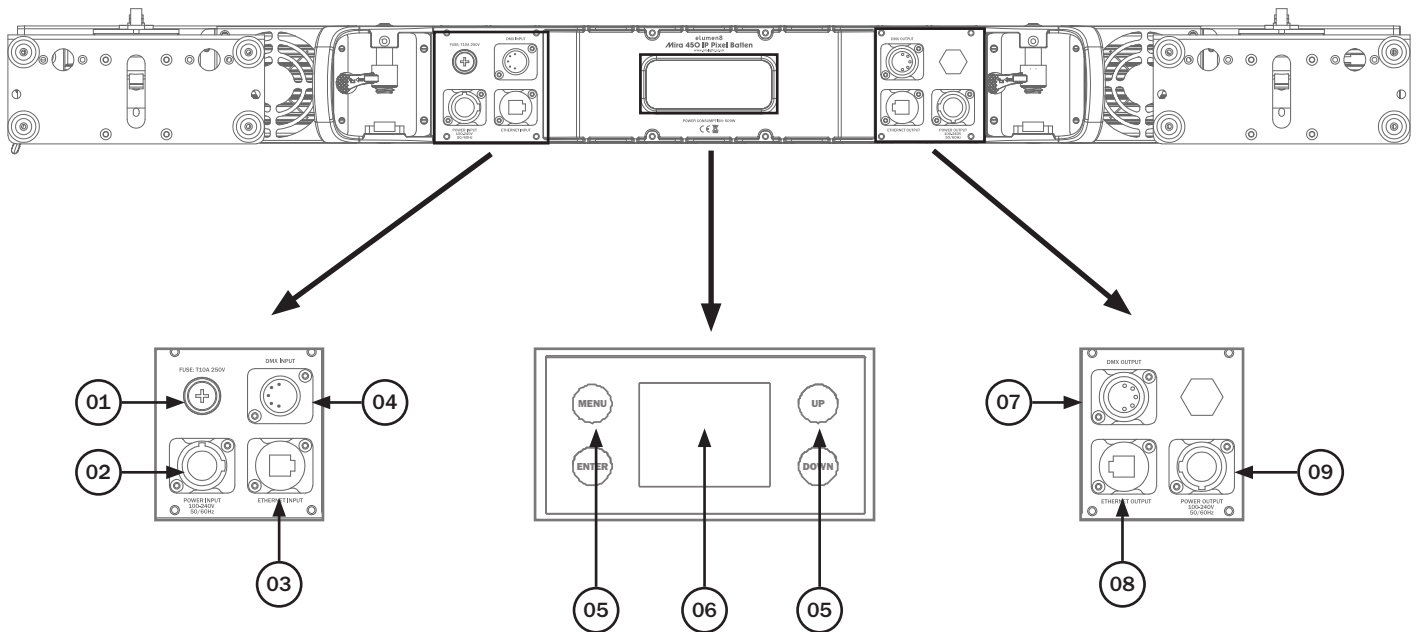
Specifications	Mira 450 IP Pixel Batten
Power consumption	509W
Fuse	T10A 250V
Power supply	100~240V, 50/60Hz
Dimensions (H x W x D)	220 x 1005 x 186mm
Weight	11kg
Order code	ELUM721

Optional diffusion lenses



20° - Order code: ELUM721L
 45° - Order code: ELUM721M
 60° - Order code: ELUM721N





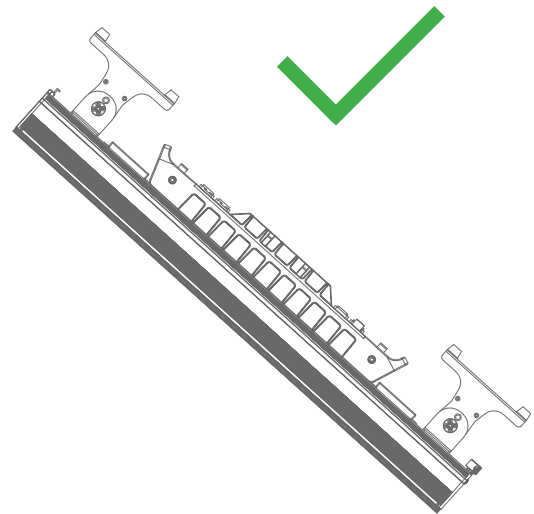
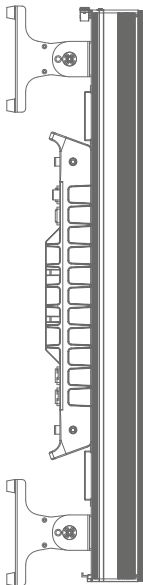
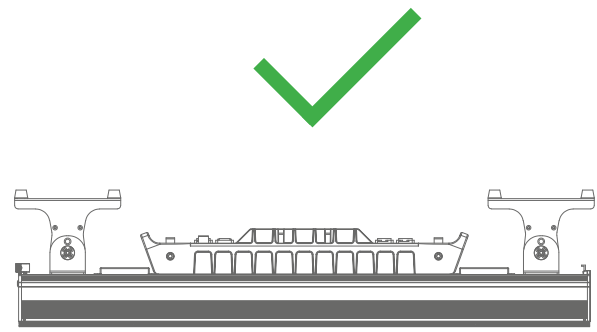
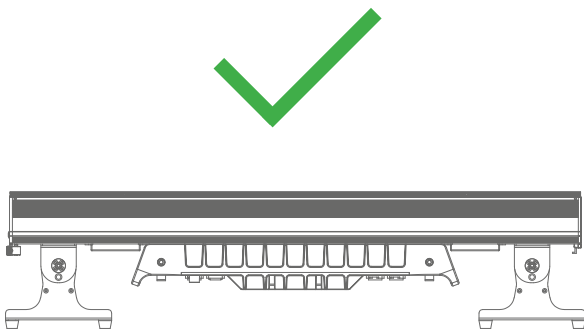
01 - Fuse T10A 250V
 02 - PowerTwist TR1 input
 03 - Ethernet input
 04 - 5-Pin DMX input
 05 - Function buttons

06 - LCD display
 07 - 5-Pin DMX output
 08 - Ethernet output
 09 - PowerTwist TR1 output

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

Before installing the fixture, the supporting structure (ie. truss) must be able to hold a minimum of 10 times the fixtures weight without any deformation (eg. 15kg - 150kg point load). The fixture must be secured with a secondary safety attachment when being installed (ie. an appropriate safety cable). Never stand directly below the fixture when mounting, removing, and/or servicing.

Overhead installation requires experience and qualifications to calculate working load limits, the material being used at the installation area and periodic safety inspections of the fixture and installation material. If you do not have the relevant experience and/or qualifications please do not attempt the installation yourself. The installation should be checked annually by a qualified person.

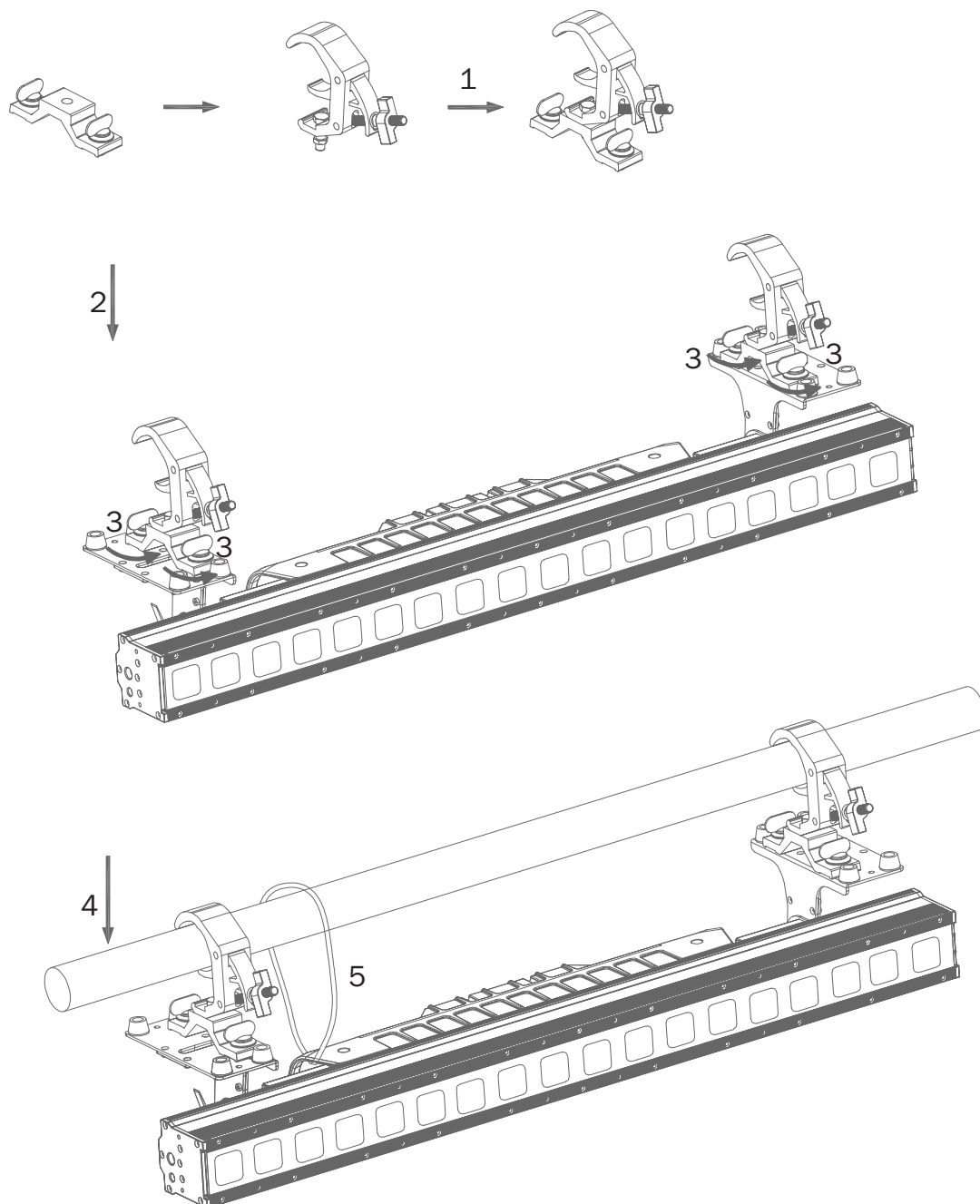


The Elumen8 Mira 450 IP Pixel Batten can be operated where the base of the fixture is horizontally orientated or vertically orientated. This includes standing the fixture upright on a flat, level surface, hanging the fixture upside down or in a position where the base of the fixture is orientated vertically or at an angle. Multiple battens should not be mounted solely via the locating pin for alignment and all battens should be rigged correctly using clamps and safety wires.

Always use a safety wire as an extra safety precaution to prevent damage/injury in the event a clamp fails (see the next page for clamp installation).

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 unit.
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.

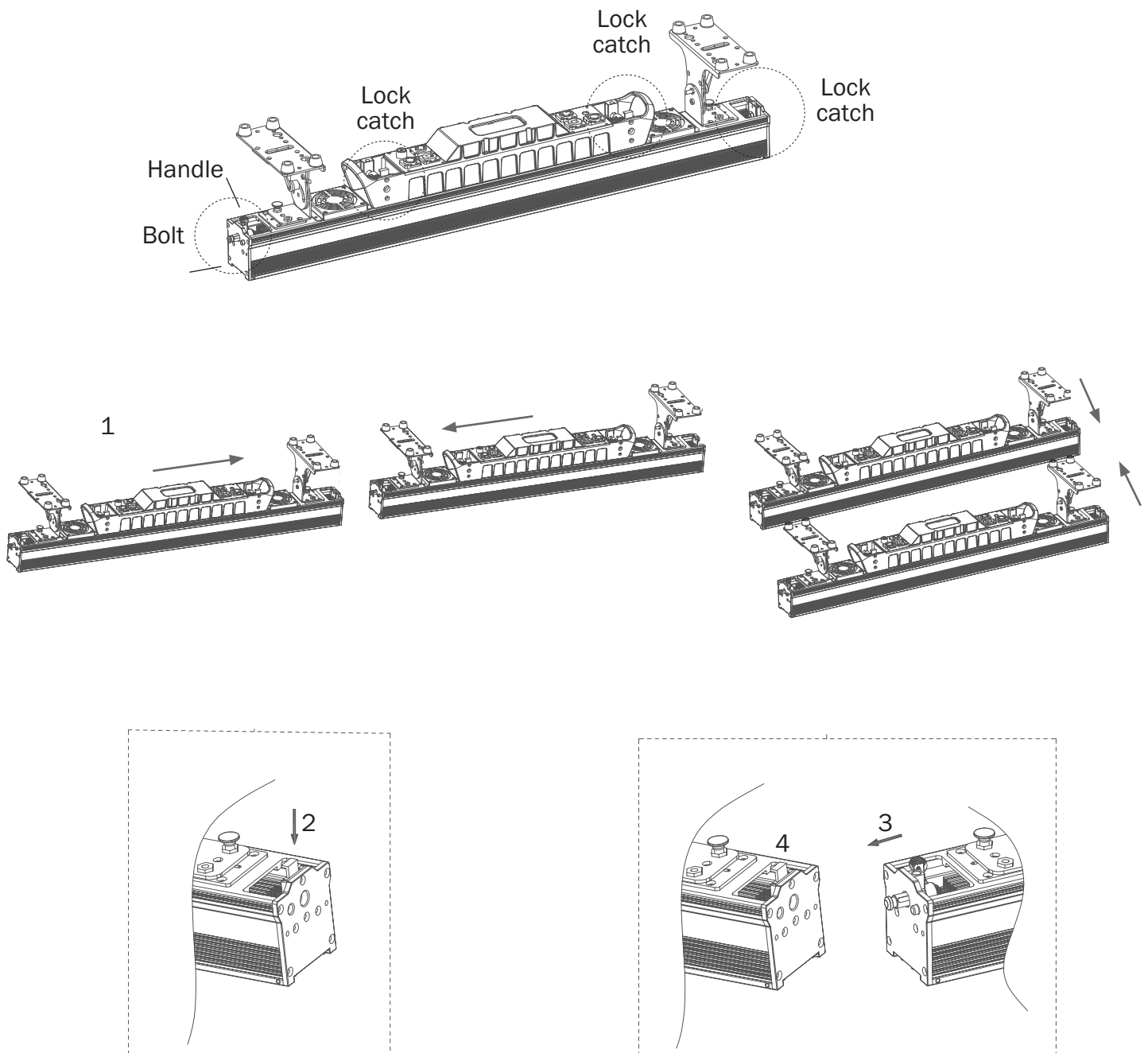


Fixture jointing:

The fixture also features a jointing lock for alignment of multiple fixtures in both horizontal or vertical arrays.

1. Align the battens horizontally or vertically as shown below.
2. Slide the locking bolt outward from the fixture body.
3. Bring the fixtures together, ensuring the locking bolt is inserted into the catch on the adjacent fixture.
4. The lock catch will automatically engage once the bolt is placed through it.

To release press down on the lock catch.



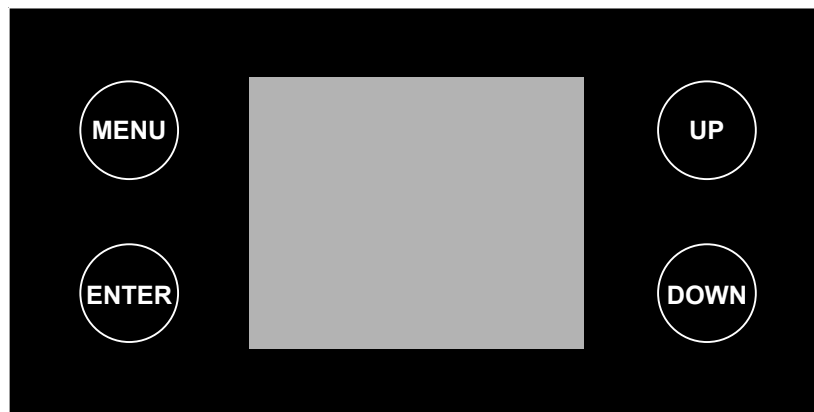
Control Panel Menu:

The LCD control panel situated on the front of the fixture allows the user to access the menu system to adjust the fixtures settings.

When the unit has been powered on the display will show “**Mira 450 IP pixel Batten**” followed by “**Resetting**”. The fixture will then return to its home screen.

Pressing the “**MENU**” button once will take the user to the fixtures main menu. Using the “**UP**” and “**DOWN**” buttons you can then navigate between the different options in the main menu. Pressing the “**ENTER**” button on one of these options allows you to access the sub menu where you can use the “**UP**” and “**DOWN**” buttons to select 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 of the above options, press and hold the “**MENU**” button.



Main Menu	Sub Menu	Options/Values (Default Settings in BOLD)		Description	
Address	001-512			DMX address setting	
Channel Mode	4CH			Channel mode setting	
	7CH				
	9CH				
	20CH				
	75CH				
	79CH				
Settings	Dimmer Mode	Linear		Dimmer curve setting	
		Square			
		I-square			
		S-curve			
	Dimmer Speed	Smooth		Dimmer speed setting	
		Fast			
	LED Frequency	800HZ	1200HZ	LED frequency setting	
		2000HZ	4000HZ		
		6000HZ	8000HZ		
		16000HZ	24000HZ		
	Fan Mode	Auto		Fan mode setting	
		Silent			
		Full			
	Display Invert	Off		Display invert setting	
		On			
	Direction Invert	Off		Direction invert setting	
		On			
	Display Lock	Off		Display lock setting	
		On			
	Factory Setting	Confirm		Default factory settings	
		Cancel			
Network	Protocol	DMX		Network Protocol Setting	
		Art-Net			
		sACN			
	Universe	Net	000-127		
		Sub	002(0-2)		
	Ethernet	002.000.000.001			
		255.000.000.000			
	DMX Output	Off			
		On			

Main Menu	Sub Menu	Options/Values (Default Settings in BOLD)		Description
Manual	Static	Fixed Colour	R	Manual mode setting
			G	
			B	
			L	
			GB	
			RB	
			RG	
			RGB	
			RL	
			GL	
			BL	
			RGL	
			RBL	
			GBL	
			RGBL	
		Manual Colour	R	
			G	
			B	
			L	
		Colour Temperature	1700K	
			2000K	
			2300K	
			2500K	
			2700K	
			3000K	
			3200K	
			3500K	
			4000K	
			4500K	
			5000K	
			5600K	
			6000K	
			6500K	
			7500K	
			8000K	
	Exit Manual Mode			

4 channel mode:

Channel	Value	Function
CH1	000-255	Red dimmer (0-100%)
CH2	000-255	Green dimmer (0-100%)
CH3	000-255	Blue dimmer (0-100%)
CH4	000-255	Lime dimmer (0-100%)

7 channel mode:

Channel	Value	Function
CH1	000-255	Master dimmer (0-100%)
CH2	000-255	Master dimmer fine (0-100%)
CH3	000-005	No function
	006-255	Strobe (slow-fast)
CH4	000-255	Red dimmer (0-100%)
CH5	000-255	Green dimmer (0-100%)
CH6	000-255	Blue dimmer (0-100%)
CH7	000-255	Lime dimmer (0-100%)

9 channel mode:

Channel	Value	Function	Description
CH1	000-255	Master dimmer (0-100%)	
CH2	000-255	Master dimmer fine (0-100%)	
CH3	000-005	No function	
	006-255	Strobe (slow-fast)	
CH4	000-255	Red dimmer (0-100%)	
CH5	000-255	Green dimmer (0-100%)	
CH6	000-255	Blue dimmer (0-100%)	
CH7	000-255	Lime dimmer (0-100%)	
CH8	000-015	No function	Colour temperature presets
	016-030	1700K	
	036-045	2000K	
	046-060	2300K	
	061-075	2500K	
	076-090	2700K	
	091-105	3000K	
	106-120	3200K	
	121-135	3500K	
	136-150	4000K	
	151-165	4500K	
	166-180	5000K	
	181-195	5600K	

9 channel mode (cont.):

Channel	Value	Function	Description
CH8	196-210	6000K	Colour temperature presets
	211-225	6500K	
	226-240	7500K	
	241-255	8000K	
CH9	000-045	No function	Colour macros
	046-050	Cyan	
	051-055	Yellow	
	056-060	Magenta	
	061-065	Medium Yellow	
	066-070	Straw Tint	
	071-075	Surprise Peach	
	076-080	Fire	
	081-085	Medium Amber	
	086-090	Gold Amber	
	091-095	Dark Amber	
	096-100	Sunrise Red	
	101-105	Light Pink	
	106-110	Medium Pink	
	111-115	Pink Carnation	
	116-120	Light Lavender	
	121-125	Sky Blue	
	126-130	Just Blue	
	131-135	Dark yellow green	
	136-140	Spring Yellow	
	141-145	Light Amber	
	146-150	Straw Tint	
	151-155	Deep Amber	
	156-160	Orange	
	161-165	Light Rose	
	166-170	Middle Rose	
	171-175	Dark Pink	
	176-180	Magenta	
	181-185	Peacock Blue	
	186-190	Steel Blue	
	191-195	Light Blue	
	196-200	Dark Blue	
	201-205	Leaf Green	
	206-210	Dark Green	
	211-215	Mauve	

Channel	Value	Function	Description
CH9	216-220	Deep Golden Amber	Colour macros
	221-225	Pale Lavender	
	226-230	Primary Green	
	231-235	Bright Blue	
	235-240	Apricot	
	241-245	Pale Gold	
	246-250	Deep Orange	
	251-255	Flame Red	

20 channel mode:

Channel	Value	Function	Description
CH1	000-255	Master dimmer (0-100%)	Foreground colour
CH2	000-255	Master dimmer fine (0-100%)	
CH3	000-005	No function	
	006-255	Strobe (slow-fast)	
CH4	000-255	Red dimmer (0-100%)	
CH5	000-255	Green dimmer (0-100%)	
CH6	000-255	Blue dimmer (0-100%)	
CH7	000-255	Lime dimmer (0-100%)	Background colour
CH8	000-255	Master dimmer (0-100%)	
CH9	000-255	Master dimmer fine (0-100%)	
CH10	000-005	No function	
	006-255	Strobe (slow-fast)	
CH11	000-255	Red dimmer (0-100%)	
CH12	000-255	Green dimmer (0-100%)	
CH13	000-255	Blue dimmer (0-100%)	
CH14	000-255	Lime dimmer (0-100%)	Programs
CH15	000-005	No Function	
	006-020	Program 1	
	021-035	Program 2	
	036-050	Program 3	
	051-065	Program 4	
	066-080	Program 5	
	081-095	Program 6	
	096-110	Program 7	
	111-125	Program 8	
	126-140	Program 9	
	141-155	Program 10	
	156-170	Program 11	
	171-185	Program 12	
	186-200	Program 13	
	201-215	Program 14	
	216-230	Program 15	
	231-245	Program 16	
	246-255	Auto Program	
CH16	000-127	Program index	Program speed
	128-191	Speed, fast-slow (left to right)	
	192-255	Speed, slow-fast (right to left)	
CH17	000-015	No Function	Colour temperature presets
	016-030	1700K	

20 channel mode (cont.):

Channel	Value	Function	Description
CH17	036-045	2000K	Colour temperature presets
	046-060	2300K	
	061-075	2500K	
	076-090	2700K	
	091-105	3000K	
	106-120	3200K	
	121-135	3500K	
	136-150	4000K	
	151-165	4500K	
	166-180	5000K	
	181-195	5600K	
	196-210	6000K	
	211-225	6500K	
	226-240	7500K	
	241-255	8000K	
CH18	000-045	No funcion	Colour macros
	046-050	Cyan	
	051-055	Yellow	
	056-060	Magenta	
	061-065	Medium Yellow	
	066-070	Straw Tint	
	071-075	Surprise Peach	
	076-080	Fire	
	081-085	Medium Amber	
	086-090	Gold Amber	
	091-095	Dark Amber	
	096-100	Sunrise Red	
	101-105	Light Pink	
	106-110	Medium Pink	
	111-115	Pink Carnation	
	116-120	Light Lavender	
	121-125	Sky Blue	
	126-130	Just Blue	
	131-135	Dark yellow green	
	136-140	Spring Yellow	
	141-145	Light Amber	
	146-150	Straw Tint	
	151-155	Deep Amber	
	156-160	Orange	

20 channel mode (cont.):

Channel	Value	Function	Description
CH18	161-165	Light Rose	Colour macros
	166-170	Middle Rose	
	171-175	Dark Pink	
	176-180	Magenta	
	181-185	Peacock Blue	
	186-190	Steel Blue	
	191-195	Light Blue	
	196-200	Dark Blue	
	201-205	Leaf Green	
	206-210	Dark Green	
	211-215	Mauve	
	216-220	Deep Golden Amber	
	221-225	Pale Lavender	
	226-230	Primary Green	
	231-235	Bright Blue	
	235-240	Apricot	
	241-245	Pale Gold	
	246-250	Deep Orange	
	251-255	Flame Red	
CH19	000-055	Dimming Curve Set in Menu	Dimming Curves
	056-105	Linear	
	106-150	Square Law	
	151-200	Inv. Square Law	
	201-255	S-Curve	
CH20	000-030	Refresh Rate Set In Menu	Refresh Rate
	031-059	800Hz	
	060-087	1200Hz	
	088-115	2000Hz	
	116-143	4000Hz	
	144-171	6000Hz	
	172-199	8000Hz	
	200-227	16000Hz	
	228-255	24000Hz	

75 channel mode:

Channel	Value	Function	
CH1	000-255	Master dimmer (0-100%)	
CH2	000-255	Master dimmer fine (0-100%)	
CH3	000-005	No function	
	006-255	Strobe (slow-fast)	
CH4	000-255	Red dimmer (0-100%)	LED 1
CH5	000-255	Green dimmer (0-100%)	
CH6	000-255	Blue dimmer (0-100%)	
CH7	000-255	Lime dimmer (0-100%)	
CH8	000-255	Red dimmer (0-100%)	LED 2
CH9	000-255	Green dimmer (0-100%)	
CH10	000-255	Blue dimmer (0-100%)	
CH11	000-255	Lime dimmer (0-100%)	
CH12	000-255	Red dimmer (0-100%)	LED 3
CH13	000-255	Green dimmer (0-100%)	
CH14	000-255	Blue dimmer (0-100%)	
CH15	000-255	Lime dimmer (0-100%)	
CH16	000-255	Red dimmer (0-100%)	LED 4
CH17	000-255	Green dimmer (0-100%)	
CH18	000-255	Blue dimmer (0-100%)	
CH19	000-255	Lime dimmer (0-100%)	
CH20	000-255	Red dimmer (0-100%)	LED 5
CH21	000-255	Green dimmer (0-100%)	
CH22	000-255	Blue dimmer (0-100%)	
CH23	000-255	Lime dimmer (0-100%)	
CH24	000-255	Red dimmer (0-100%)	LED 6
CH25	000-255	Green dimmer (0-100%)	
CH26	000-255	Blue dimmer (0-100%)	
CH27	000-255	Lime dimmer (0-100%)	
CH28	000-255	Red dimmer (0-100%)	LED 7
CH29	000-255	Green dimmer (0-100%)	
CH30	000-255	Blue dimmer (0-100%)	
CH31	000-255	Lime dimmer (0-100%)	
CH32	000-255	Red dimmer (0-100%)	LED 8
CH33	000-255	Green dimmer (0-100%)	
CH34	000-255	Blue dimmer (0-100%)	
CH35	000-255	Lime dimmer (0-100%)	
CH36	000-255	Red dimmer (0-100%)	LED 9
CH37	000-255	Green dimmer (0-100%)	
CH38	000-255	Blue dimmer (0-100%)	
CH39	000-255	Lime dimmer (0-100%)	

Channel	Value	Function	
CH40	000-255	Red dimmer (0-100%)	LED 10
CH41	000-255	Green dimmer (0-100%)	
CH42	000-255	Blue dimmer (0-100%)	
CH43	000-255	Lime dimmer (0-100%)	
CH44	000-255	Red dimmer (0-100%)	LED 11
CH45	000-255	Green dimmer (0-100%)	
CH46	000-255	Blue dimmer (0-100%)	
CH47	000-255	Lime dimmer (0-100%)	
CH48	000-255	Red dimmer (0-100%)	LED 12
CH49	000-255	Green dimmer (0-100%)	
CH50	000-255	Blue dimmer (0-100%)	
CH51	000-255	Lime dimmer (0-100%)	
CH52	000-255	Red dimmer (0-100%)	LED 13
CH53	000-255	Green dimmer (0-100%)	
CH54	000-255	Blue dimmer (0-100%)	
CH55	000-255	Lime dimmer (0-100%)	
CH56	000-255	Red dimmer (0-100%)	LED 14
CH57	000-255	Green dimmer (0-100%)	
CH58	000-255	Blue dimmer (0-100%)	
CH59	000-255	Lime dimmer (0-100%)	
CH60	000-255	Red dimmer (0-100%)	LED 15
CH61	000-255	Green dimmer (0-100%)	
CH62	000-255	Blue dimmer (0-100%)	
CH63	000-255	Lime dimmer (0-100%)	
CH64	000-255	Red dimmer (0-100%)	LED 16
CH65	000-255	Green dimmer (0-100%)	
CH66	000-255	Blue dimmer (0-100%)	
CH67	000-255	Lime dimmer (0-100%)	
CH68	000-255	Red dimmer (0-100%)	LED 17
CH69	000-255	Green dimmer (0-100%)	
CH70	000-255	Blue dimmer (0-100%)	
CH71	000-255	Lime dimmer (0-100%)	
CH72	000-255	Red dimmer (0-100%)	LED 18
CH73	000-255	Green dimmer (0-100%)	
CH74	000-255	Blue dimmer (0-100%)	
CH75	000-255	Lime dimmer (0-100%)	

79 channel mode:

Channel	Value	Function	Description
CH1	000-255	Master dimmer (0-100%)	
CH2	000-255	Master dimmer fine (0-100%)	
CH3	000-005	No function	
	006-255	Strobe (slow-fast)	
CH4	000-015	No function	Colour temperature presets
	016-030	1700K	
	036-045	2000K	
	046-060	2300K	
	061-075	2500K	
	076-090	2700K	
	091-105	3000K	
	106-120	3200K	
	121-135	3500K	
	136-150	4000K	
	151-165	4500K	
	166-180	5000K	
	181-195	5600K	
	196-210	6000K	
	211-225	6500K	
	226-240	7500K	
	241-255	8000K	
CH5	000-045	No function	Colour macros
	046-050	Cyan	
	051-055	Yellow	
	056-060	Magenta	
	061-065	Medium Yellow	
	066-070	Straw Tint	
	071-075	Surprise Peach	
	076-080	Fire	
	081-085	Medium Amber	
	086-090	Gold Amber	
	091-095	Dark Amber	
	096-100	Sunrise Red	
	101-105	Light Pink	
	106-110	Medium Pink	
	111-115	Pink Carnation	
	116-120	Light Lavender	
	121-125	Sky Blue	
	126-130	Just Blue	

79 channel mode (cont.):

Channel	Value	Function	Description
CH5	131-135	Dark yellow green	Colour macros
	136-140	Spring Yellow	
	141-145	Light Amber	
	146-150	Straw Tint	
	151-155	Deep Amber	
	156-160	Orange	
	161-165	Light Rose	
	166-170	Middle Rose	
	171-175	Dark Pink	
	176-180	Magenta	
	181-185	Peacock Blue	
	186-190	Steel Blue	
	191-195	Light Blue	
	196-200	Dark Blue	
	201-205	Leaf Green	
	206-210	Dark Green	
	211-215	Mauve	
	216-220	Deep Golden Amber	
	221-225	Pale Lavender	
	226-230	Primary Green	
	231-235	Bright Blue	
	235-240	Apricot	
	241-245	Pale Gold	
	246-250	Deep Orange	
	251-255	Flame Red	
CH6	000-255	Red dimmer (0-100%)	LED 1
CH7	000-255	Green dimmer (0-100%)	
CH8	000-255	Blue dimmer (0-100%)	
CH9	000-255	Lime dimmer (0-100%)	
CH10	000-255	Red dimmer (0-100%)	LED 2
CH11	000-255	Green dimmer (0-100%)	
CH12	000-255	Blue dimmer (0-100%)	
CH13	000-255	Lime dimmer (0-100%)	
CH14	000-255	Red dimmer (0-100%)	LED 3
CH15	000-255	Green dimmer (0-100%)	
CH16	000-255	Blue dimmer (0-100%)	
CH17	000-255	Lime dimmer (0-100%)	
CH18	000-255	Red dimmer (0-100%)	LED 4
CH19	000-255	Green dimmer (0-100%)	
CH20	000-255	Blue dimmer (0-100%)	
CH21	000-255	Lime dimmer (0-100%)	

79 channel mode (cont.):

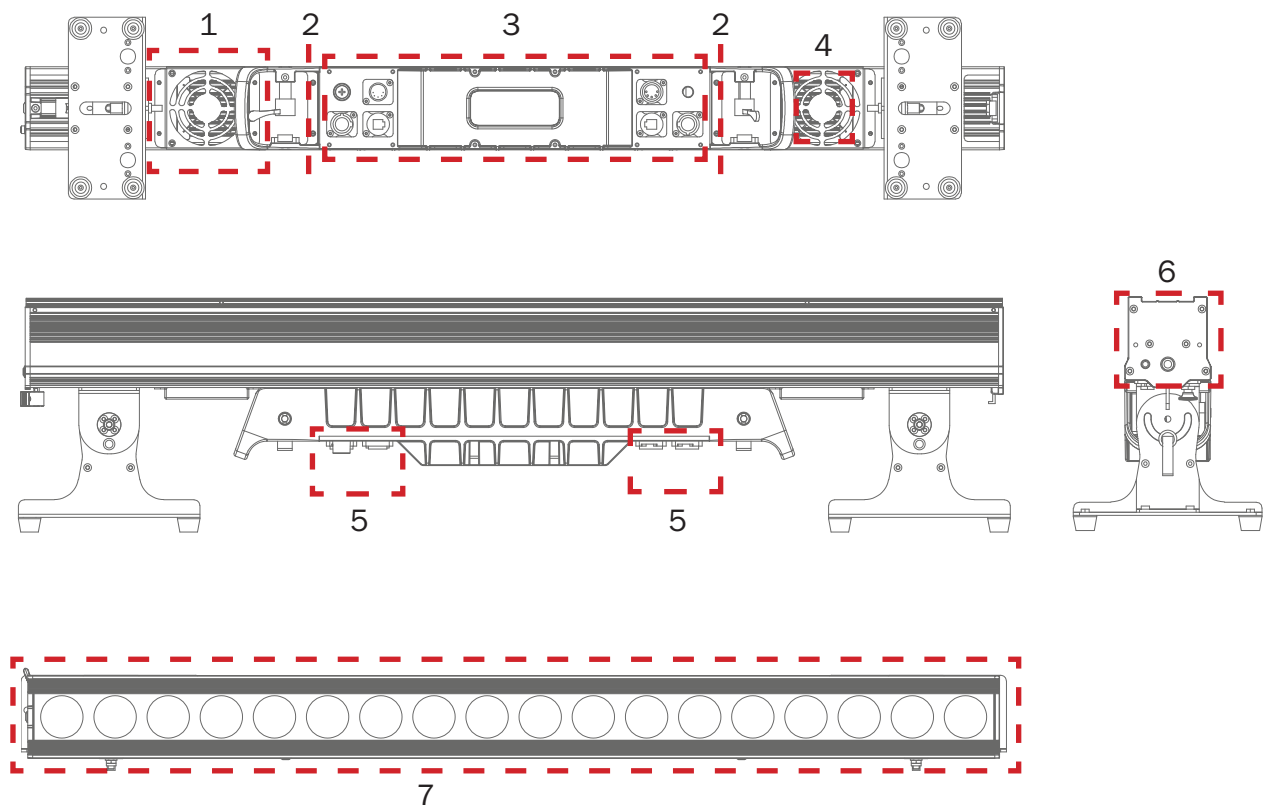
Channel	Value	Function	
CH22	000-255	Red dimmer (0-100%)	LED 5
CH23	000-255	Green dimmer (0-100%)	
CH24	000-255	Blue dimmer (0-100%)	
CH25	000-255	Lime dimmer (0-100%)	LED 6
CH26	000-255	Red dimmer (0-100%)	
CH27	000-255	Green dimmer (0-100%)	
CH28	000-255	Blue dimmer (0-100%)	
CH29	000-255	Lime dimmer (0-100%)	LED 7
CH30	000-255	Red dimmer (0-100%)	
CH31	000-255	Green dimmer (0-100%)	
CH32	000-255	Blue dimmer (0-100%)	
CH33	000-255	Lime dimmer (0-100%)	LED 8
CH34	000-255	Red dimmer (0-100%)	
CH35	000-255	Green dimmer (0-100%)	
CH36	000-255	Blue dimmer (0-100%)	
CH37	000-255	Lime dimmer (0-100%)	LED 9
CH38	000-255	Red dimmer (0-100%)	
CH39	000-255	Green dimmer (0-100%)	
CH40	000-255	Blue dimmer (0-100%)	
CH41	000-255	Lime dimmer (0-100%)	LED 10
CH42	000-255	Red dimmer (0-100%)	
CH43	000-255	Green dimmer (0-100%)	
CH44	000-255	Blue dimmer (0-100%)	
CH45	000-255	Lime dimmer (0-100%)	LED 11
CH46	000-255	Red dimmer (0-100%)	
CH47	000-255	Green dimmer (0-100%)	
CH48	000-255	Blue dimmer (0-100%)	
CH49	000-255	Lime dimmer (0-100%)	LED 12
CH50	000-255	Red dimmer (0-100%)	
CH51	000-255	Green dimmer (0-100%)	
CH52	000-255	Blue dimmer (0-100%)	
CH53	000-255	Lime dimmer (0-100%)	LED 13
CH54	000-255	Red dimmer (0-100%)	
CH55	000-255	Green dimmer (0-100%)	
CH56	000-255	Blue dimmer (0-100%)	
CH57	000-255	Lime dimmer (0-100%)	LED 14
CH58	000-255	Red dimmer (0-100%)	
CH59	000-255	Green dimmer (0-100%)	
CH60	000-255	Blue dimmer (0-100%)	
CH61	000-255	Lime dimmer (0-100%)	LED 15
CH62	000-255	Red dimmer (0-100%)	

Channel	Value	Function	
CH63	000-255	Green dimmer (0-100%)	LED 15
CH64	000-255	Blue dimmer (0-100%)	
CH65	000-255	Lime dimmer (0-100%)	
CH66	000-255	Red dimmer (0-100%)	LED 16
CH67	000-255	Green dimmer (0-100%)	
CH68	000-255	Blue dimmer (0-100%)	
CH69	000-255	Lime dimmer (0-100%)	
CH70	000-255	Red dimmer (0-100%)	LED 17
CH71	000-255	Green dimmer (0-100%)	
CH72	000-255	Blue dimmer (0-100%)	
CH73	000-255	Lime dimmer (0-100%)	
CH74	000-255	Red dimmer (0-100%)	LED 18
CH75	000-255	Green dimmer (0-100%)	
CH76	000-255	Blue dimmer (0-100%)	
CH77	000-255	Lime dimmer (0-100%)	
CH78	000-055	Dimming Curve Set In Menu	
	056-105	Linear	
	106-150	Square Law	
	151-200	Inv. Square Law	
	201-255	S-Curve	
CH79	000-030	Refresh Rate Set In Menu	
	031-059	800Hz	
	060-087	1200Hz	
	088-115	2000Hz	
	116-143	4000Hz	
	144-171	6000Hz	
	172-199	8000Hz	
	200-227	16000Hz	
	228-255	24000Hz	

Torque settings:

All screws must be tightened with a torque driver. All screws are Phillips and hex head screws. Please see below table and diagram on the following page for screw locations, quantities and torque settings.

Position	Part of Head (Number of Screws)	Torque (Size of Screw)
1	Fan grille (4 per side, 8 in total)	1.85-2.0 Nm (3mm Hex)
2	Rear housing (4)	4.8-5.0 Nm (4mm Hex)
3	Rear cover (12)	1.9-2.0 Nm (3mm Hex)
4	Fan (8)	0.40-0.55 Nm (Phillips)
5	Power/DMX inputs/outputs (6 per side, 12 total)	0.70-0.85 Nm (Phillips)
6	End panels (6 per side, 12 total)	1.85-2.0 Nm (Phillips)
7	Front lens (22)	3.65-4.0 Nm (Phillips)



Torque Drivers (recommended): UTICA TS-30 (shown below).



CAUTION!

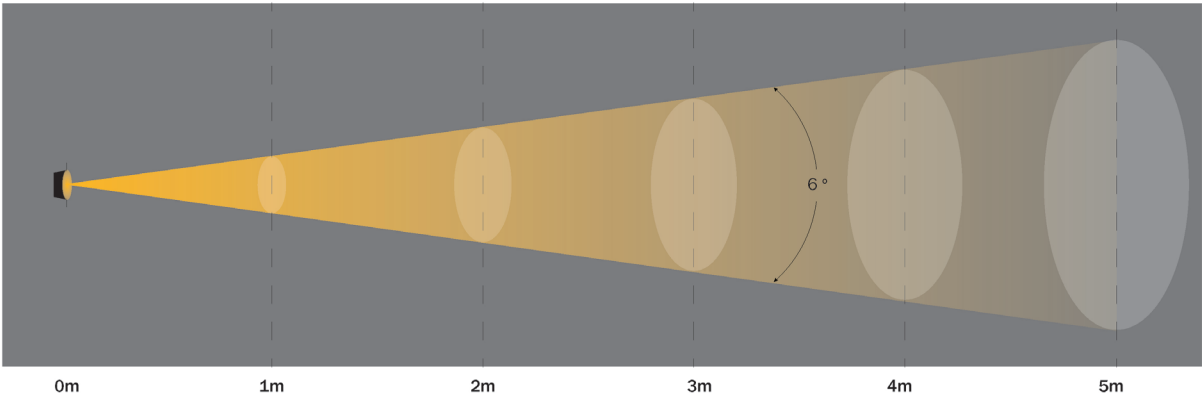
**DO NOT OVER TORQUE SCREWS AS THIS CAN CAUSE LEAKAGE ISSUES!
WE ALWAYS RECOMMEND TESTING THE IP INTEGRITY AFTER LAMP
REPLACEMENT/OPENING THE HOUSING, USING THE ELUMEN8 IP TESTER.
CONTACT PROLIGHT SERVICE FOR MORE INFORMATION.**

IP Testing Parametersfor:

IP Testing Parameters					
Type Test	Target Value	Acceptable Change due to Leakage	Inflation / Deflation Time	Stabilisation Time	Test Time
Vacuum Test	-2.9 psi (-20 KPa)	0.03 psi (0.2 KPa)	50 seconds	15 seconds	15 seconds
Pressure Test	3.05 psi (21 KPa)	0.04 psi (0.3 KPa)	30 seconds	20 seconds	25 seconds

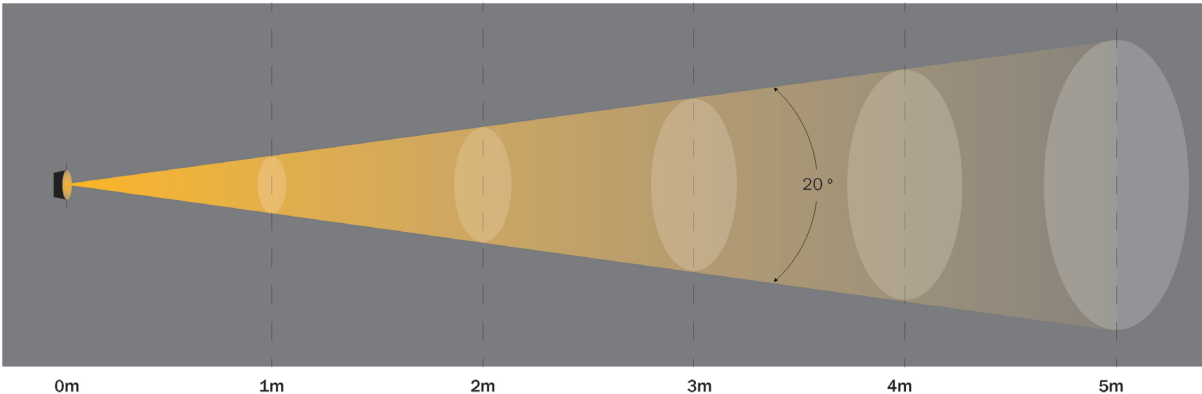
6° Native beam angle

6° LUX	28172	7043	3130	1761	1127	Red
6° LUX	58292	14573	6477	3643	2332	Green
6° LUX	9400	2350	1044	588	376	Blue
6° LUX	135436	33859	15048	8465	5417	Lime
6° LUX	189032	47258	21004	11815	7561	Full on



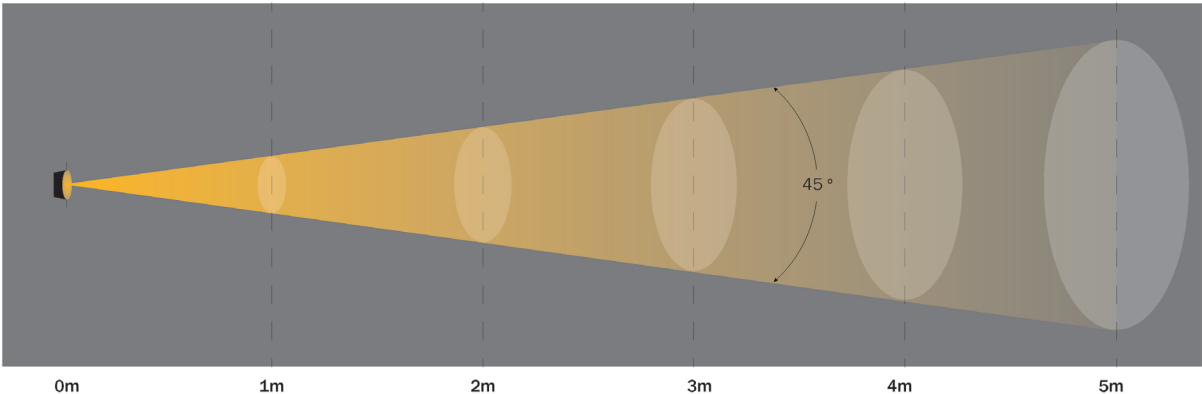
20° Diffusion Lens (ELUM721L)

20° LUX	8840	2210	982	553	354	Red
20° LUX	17956	4489	1995	1122	718	Green
20° LUX	3628	907	403	227	145	Blue
20° LUX	47904	11976	5323	2994	1916	Lime
20° LUX	72516	18129	8057	4532	2901	Full on



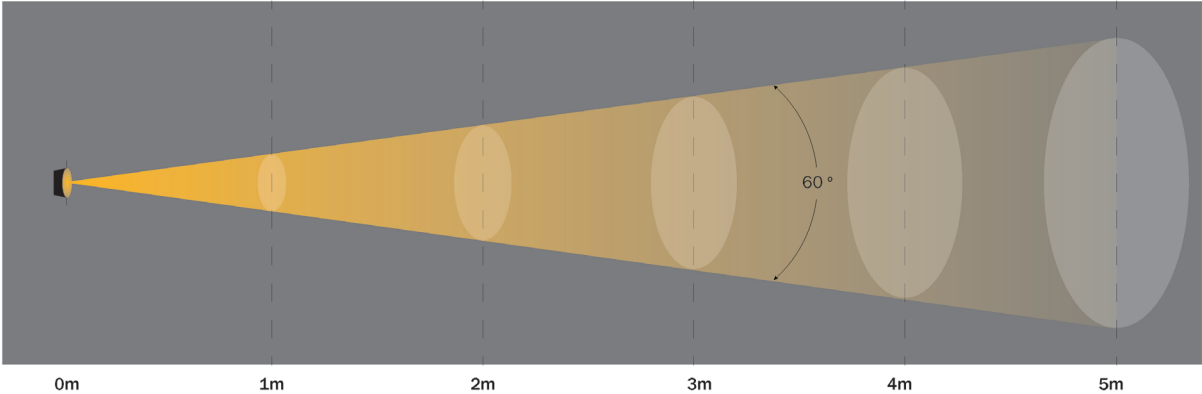
45° Diffusion Lens (ELUM721M)

45° LUX	6092	1523	677	381	244	Red
45° LUX	12536	3134	1393	784	501	Green
45° LUX	2488	622	276	156	100	Blue
45° LUX	32708	8177	3634	2044	1308	Lime
45° LUX	49144	12286	5460	3072	1966	Full on



60° Diffusion Lens (ELUM721N)

60° LUX	1952	488	217	122	78	Red
60° LUX	4188	1047	465	262	168	Green
60° LUX	872	218	97	55	35	Blue
60° LUX	11376	2844	1264	711	455	Lime
60° LUX	16540	4135	1838	1034	662	Full on



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



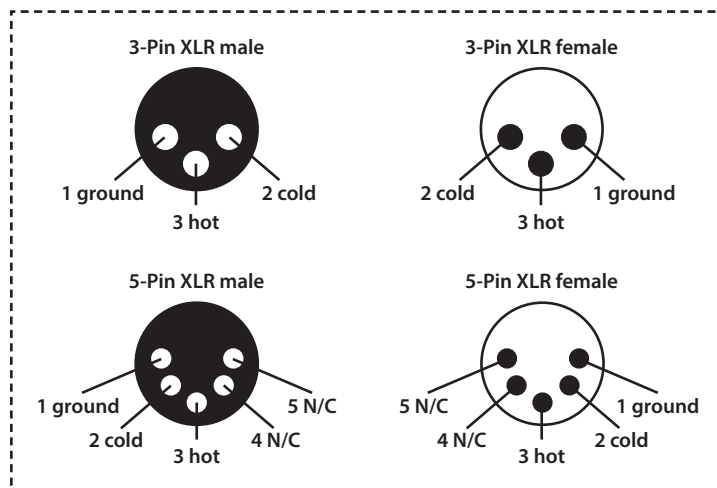
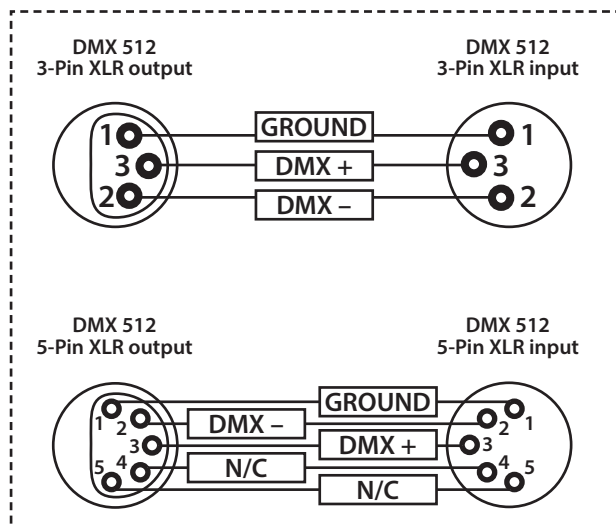
Further DMX cables can be purchased from all good sound and lighting suppliers or Prolight Concepts dealers.
 Please quote: 5-Pin: **CABL185 – 2m** **CABL187 – 5m** **CABL188 – 10m**

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



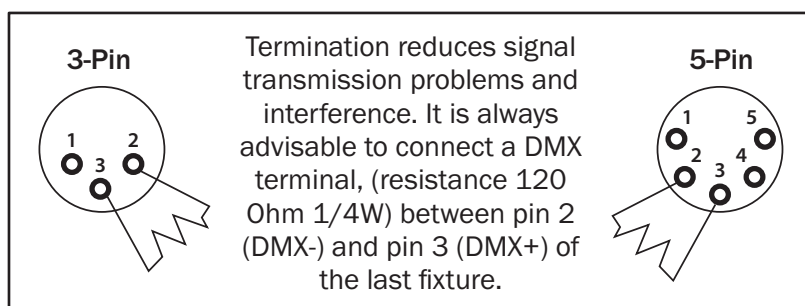
Line termination:

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.

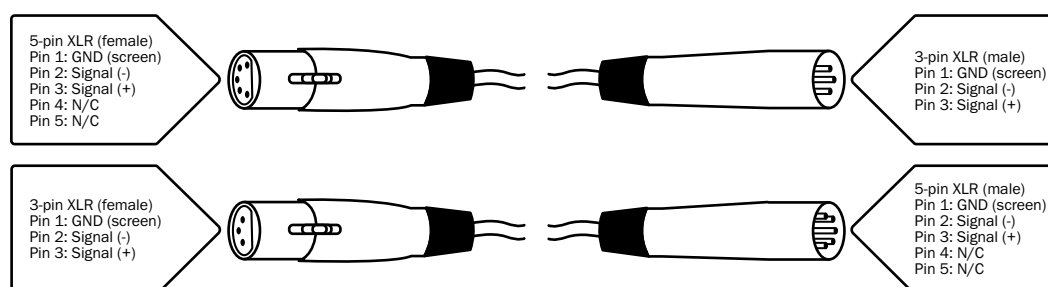
(3-pin - Order ref: CABL90,

5-pin - Order ref: CABL89)



5-pin XLR DMX connectors:

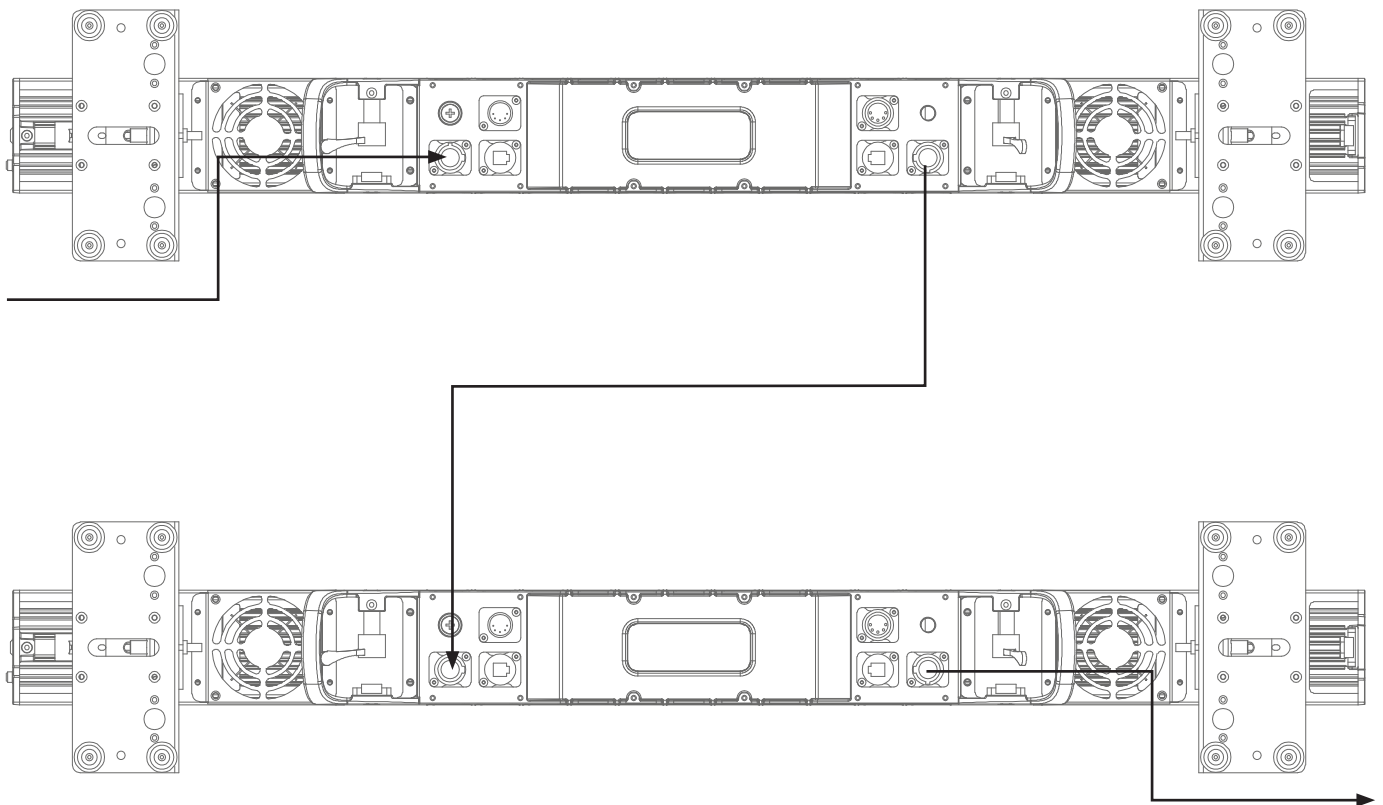
Some manufacturers use 5-pin XLR connectors for data transmission in place of 3-pin. 5-pin XLR fixtures may be implemented in a 3-pin XLR DMX line. When inserting standard 5-pin XLR connectors in to a 3-pin line a cable adaptor must be used. The diagram below details the correct cable conversion.



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 via a 13A mains input is 5 fixtures @ 240V or 2 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 Mira 450 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 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.

