



## Micro LED4000X2 Light Source Range

Models covered by this manual

UFO MicroLED 4000X2

Please read this manual fully before installing, operating or performing maintenance on the light source unit.

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## **INTRODUCTION**

Thank you for purchasing this UFO Light source.

Please read these instructions fully before connecting your unit to the electrical supply, and keep them for future reference.

The UFO MicroLED range of light sources utilises an RGBW LED array and is suitable for use with either glass or polymer fibre-optic harness

The MicroLED is powered by a 100-240 VAC remote desktop power supply unit.

## **IMPORTANT**

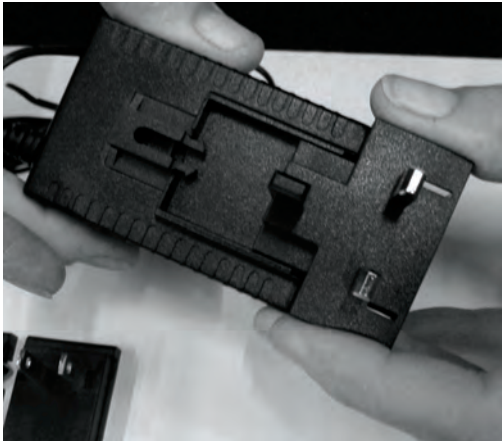
THIS PRODUCT MUST BE INSTALLED IN ACCORDANCE WITH THE APPLICABLE INSTALLATION CODE BY A PERSON FAMILIAR WITH THE CONSTRUCTION AND OPERATION OF THE PRODUCT AND THE HAZARDS INVOLVED.

# INSTALLATION INSTRUCTIONS

## POWER SUPPLY REQUIREMENTS

The LED Light Source is powered from a multifunction, multi-voltage, desk top Power Supply Unit. Remove the SW4047B Desk Top PSU from its box. This PSU is a multi-plug device catering for UK, European and USA plugs.

Select the correct plug and slide it into the receptacle until it clicks securely into place as shown below



The plug can be removed by squeezing together the plastic retaining lugs and sliding the plug back out.

Connect the jack plug into the socket in the back, and the light source is now ready for connection.



**DO NOT FIT BATTERIES  
TO THE REMOTE  
CONTROL UNTIL YOU  
HAVE FULLY READ THE  
INSTRUCTIONS ON  
PAGE 4**

CONNECTION

There are 3 connections required – 2 fibre port connections and the mains supply. The fibre ports should be connected first. Connect and secure the fibre optic connectors into the green collars and secure using the M5 locking screws

Plug the mains plug into the electrical supply socket. Switch on power the led Indicator will illuminate and the light source will start up automatically. If no light is produced consult the TROUBLESHOOTING section

NOTE: THESE LIGHT SOURCES ARE NOT MAINS DIMMABLE.

MicroLED 4000X2 REMOTE CONTROLLER

Specification:

Description	Details	Comments
Power	3 X AAA batteries	
Range	8 - 15 metres	Measured in free space, may be attenuated by obstructions or other RF devices
Frequency	433MHz	Approved for use in UK, Europe and USA

**Batteries** – With the LED Light Source powered up as described above, remove the rear cover on the Remote Controller. **Taking care not to touch any of the front cover buttons**, insert the batteries. If you touch the remote control buttons when inserting the batteries it **WILL** affect the operation of your Remote Control. If you do accidentally touch any of the buttons, remove the batteries and start again.

Once the batteries are inserted do not use the Remote Control for 5 seconds.



DO NOT TOUCH THE  
BUTTONS WHILST  
INSERTING  
BATTERIES

Test remote control functions as detailed on page 5. The Remote Controller is “matched” to the Light Source at the factory. If the Remote Controller is not matched, or an additional or replacement Remote Controller is required (see NOTE 2) for the Light Source, proceed to the Matching Mode as follows. If a Remote Controller is to be removed from control of a Light Source proceed to Unmatching Mode on page 5.

REMOTE OPERATION

- Button 1: On / Off
- Button 2: Colour Mode Select
- Button 3: White Light Select
- Button 4: Brightness +
- Button 5: Brightness -
- Colour Ring: Manual Colour Select



**Matching Mode** – Remove the power plug from the rear of the Light Source, then replace and immediately (within 3 seconds) press button 4, the Light Source will “blink” 3 times indicating that the Remote Controller is matched to the Light Source.

**Unmatching Mode** - Remove the power plug from the rear of the Light Source, then replace and immediately (within 3 seconds) press button 4, five times , the Light Source will “blink” 3 times indicating that the Remote Controller unmatched from the Light Source.

**Colour Mode** – Press the button momentarily to go from White Light to Colour. The Colour Ring can now be used to select individual colours by touching the ring. Touching the ring is preferred to rapidly sliding your finger around the ring, see NOTE 1 below and Troubleshooting section at rear of User Guide. Press and hold Button 2 for 3 to 5 seconds and the colours will cycle automatically. Press the button momentarily to stop on the colour of your choice. To return to colour cycle, press and hold Button 2 for 3 to 5 seconds

**White Light** – press button 3 to go to White Light mode

**Brightness** – brightness can be increased or reduced in any mode using buttons 4 & 5

**NOTE 1:** Multiple commands to the Light Source (such as sliding a finger rapidly around the colour ring) may cause the Light Source to freeze and temporarily stop obeying commands and in some extreme instances permanently stop until power to the Light Source is recycled. It is not recommended that the Remote Control be used in this way

**NOTE 2:** Where a Light Source has more than one Remote Control, reduction in operating range may be experienced when both (or multiple) Remote Controls are used simultaneously.

REMOTE RANGE WALK TEST

Once the Light Source is fully installed carry out a complete range walk test and record the range in the table below. This information is essential for maintenance purposes to determine if the range/sensitivity is reducing and also to record dead areas within the Remote Controller’s range due to RF obstructions and/or RF interference

Description	Date	Max Range	
Controller 1			
Controller 2			
Controller 3			
Dead Areas			

## STANDALONE OPERATION

To disable the remote and revert to manual operation press one of the buttons on the rear of the Light Source. The Light Source will now respond to manual commands from the 2 control buttons as detailed below

### OPERATION

The LED Light source has 2 colour cycles each with 3 different speed settings as detailed below

Cycle	Colour 1	Colour 2	Colour 3	Colour 4	Colour 5	Colour 6	Colour 7
1	White	Red	Orange	Jade	Green	Cyan	Blue
2	Pink	Red	Orange	Jade	Green	Cyan	Blue

The Light Source is controlled using the 2 push buttons on the rear of the unit.

The Lower button STOPS and STARTS the colour Cycle

The Upper button is used to select the Cycle speed as follows. Push the Upper button repeatedly until the colour White is displayed. The light source is now in Cycle 1 speed A as detailed below. Each push reduces the speed. On the third push the colour Red will be displayed. The light source is now in Cycle 2 speed A

Cycle	SPEED A - Fastest	SPEED B - Slower	SPEED C - Slowest
1 (White Start)	Push Once	Push Once	Push Once
2 (Red Start)	Push Once	Push Once	Push Once

At any time the cycle can be stopped on a colour and started again using the Lower push button

To disable manual operation and revert to remote controller operation, recycle the power to the Light Source. The Remote Controller may need to be matched to the Light Source as detailed on page 5.

### DMX OPERATION

The MicroLED4000x2 is programmed as a **Master** unit (see mode designation label on the rear of the unit) and is capable of interlinking to a MicroLED **Slave** Light Source using a RJ45 cable. In this Master /Slave configuration the Slave Light Source will follow the Master Light Source, but no control from a remote DMX controller is possible. Remote DMX control can only be achieved using MicroLED**SLAVE** Light Sources. See MicroLED**SLAVE** User Guide for DMX wiring connections

# MAINTENANCE

Please note that a record of all maintenance **MUST** be kept in the table below, indicating what maintenance was undertaken and when.

Date	Maintenance Undertaken

## TROUBLESHOOTING

Problem	Probable cause(s)	Remedy
Unit is dead – no light output from either harness and LED power indicator is not illuminated	Mains supply off	Check supply and reinstate
	Loose mains plugs	Check plugs
	PSU failed	Replace PSU
Unit is dead - no light output but LED power indicator is still illuminated	One LED Array has failed	Replace Light Source
	May have been switched off using Remote Controller	Recycle power to Light Source or switch on using Remote Controller
Remote Controller range reduced or persistently freezing	Remote Controller batteries failing	Replace batteries as per user guide instructions and carry out matching if necessary
	Something new causing interference within operating range	Check for another device transmitting RF interference
	Remote Controller needs resetting	Power the Remote controller down by removing and reinstalling the batteries as per User Guide instructions
	Remote Controller failing	Replace Remote Controller
	Light Source Receiver Failing	Replace Light Source
Unit won't respond to Remote Controller	Remote Controller batteries failed	Replace batteries as per User Guide instructions and carry out matching if necessary
	Light Source in stand alone mode	Recycle power to Light Source
	Remote Controller needs resetting	Power the Remote Controller down by removing and reinstalling the batteries as per User Guide instructions
	Remote Controller not “matched” to Light Source	Carry out “matching” procedure as detailed in REMOTE OPERATION
	Remote Controller failed	Replace Remote Controller
	Light Source Receiver Failed	Replace Light Source
Poor Light output on fibre	Unit needs cleaning	Carefully clean LED lens with dry cloth
		Clean Fibre common end
	Fibre port connector not plugged in correctly	Ensure plugged in correctly and secured with locking screw
In Stand Alone Mode - Stationary on one colour	Lower Button has been pressed	Press Lower button once
	LED Driver has failed	Replace Light Source
In Stand Alone Mode - Colour cycle cannot be stopped	LED Driver has failed	Replace Light Source



# TECHNICAL SPECIFICATIONS

Description	Details
Port connector size	30mm
Fibre type	Glass/Polymer
Supply voltage	100-240V AC, 47- 63 Hz.0.58A
PSU Output	12V DC, 2A, 24W Maximum
LED Power	2 - 5W in colour cycle mode
Min Ambient Temperature	-10°C
Max Ambient Temperature	+45°C
Power Connection	2.1 x 5.5 x 12mm
LED Type / Model	RGBW
LED Life	50,000 hours in ambient 25°C
Material	Aluminium
Colour	Anodised Silver
Size	(L)190mm x(W) 68mm x (H)75mm
Weight (including PSU and remote control)	0.86kg

NOTES:

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