



MicroLED Illuminator Range

Models covered by this manual:

UFO MIC4000

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

Universal Fiber Optic Lighting

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INTRODUCTION

Thank you for purchasing this UFO illuminator.

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

The UFO MicroLED range of illuminators utilises an RGBW LED array and is suitable for use with either glass or PMMA fiber-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 Illuminator 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 illuminator 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 2 connections required – the fiber port and the mains supply. The fiber port should be connected first. Connect and secure the fiber optic connector into the silver collar and secure using the M5 locking screw

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

NOTE: THESE LIGHT SOURCES ARE NOT MAINS DIMMABLE.

MIC4000 REMOTE CONTROLLER

Specification:

Description	Details	Comments
Power	2 X AAA batteries	
Range	30 metres	Measured in free space, may be attenuated by obstructions or other RF devices
Frequency	2.4GHz	Approved for use in UK, Europe and USA

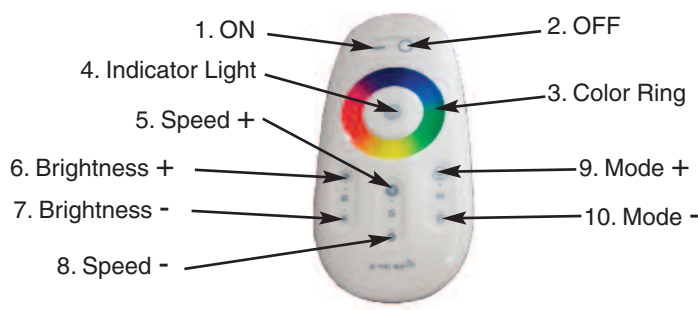
Batteries – With The LED Illuminator powered up as described above, remove the rear cover on Remote Controller. **Taking care not to touch any of the front cover buttons**, insert the batteries. If you touch the remote control buttons when inserting the batteries it **WILL** effect the operation of your 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 3 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 Illuminator at the factory. If the Remote Controller is not matched or an additional or replacement Remote Controller is required (see NOTE 2) for the Illuminator proceed to the Matching Mode as follows. If a Remote Controller is to be removed from control of a Illuminator proceed to Unmatching Model on page 5.

REMOTE OPERATION



No	Description	Function
01	Button	Power ON
02	Button	Power OFF
03	Color Ring	Touch control all colors (White not available)
04	Indicator	Indicates Controller active when buttons pressed
05	Button	Increase color cycle speed
06	Button	Increase Brightness
07	Button	Decrease Brightness
08	Button	Decrease Color cycle speed
09	Button	Mode + Step up through Color cycle programmes
10	Button	Mode - Step down through Color cycle programmes

REMOTE CONTROLLER OPERATION

Matching Remote to Illuminator – Remove the power plug from the rear of the Illuminator, then replace and once the Indicator Light (4.) lights, touch button 5 within 3 seconds, the Illuminator will “blink” twice slowly indicating that the Remote Controller is matched to the Illuminator.

Unmatching Remote from Illuminator - Remove the power plug from the rear of the Illuminator, then replace and once the Indicator Light (4.) lights, touch and hold button 5 within 3 seconds and the Illuminator will “blink” 9 times indicating that the Remote Controller is unmatched from the Illuminator.

Mode Function Programme List

No	Mode	Brightness	Speed	Comment
1	Static White	Adjustable	Not Adjustable	To revert to 1 (Static White) at any time touch Color Ring then Mode+
2	White and Colors mixed	Adjustable	Not Adjustable	Color Ring control – brightness adjust Color only, not White. To revert to 2 (Color Ring) at any time touch color ring
3	All Colors fade change	Adjustable	Adjustable	No White
4	RGBW fade change	Adjustable	Adjustable	Red, Green, Blue & White
5	RGBW snap change	Adjustable	Adjustable	Red, Green, Blue & White
6	7 Colors snap change	Adjustable	Adjustable	White and Colors mixed
7	2 Colors snap change	Adjustable	Adjustable	Red & White
8	2 Colors snap change	Adjustable	Adjustable	Blue & White
9	2 Colors snap change	Adjustable	Adjustable	Green & White
10	1 Color Flash	Adjustable	Adjustable	Red
11	1 Color Flash	Adjustable	Adjustable	Blue
12	1 Color Flash	Adjustable	Adjustable	Green
13	1 Color Flash	Adjustable	Adjustable	White
14	All Colors snap & fade	Adjustable	Adjustable	Random

NOTES

Mode Buttons – This is not a loop, i.e. touching the **Mode+** button will not eventually bring you back to Mode 1. To revert to Mode 1, either touch **Mode –** button repeatedly to step back up through the Mode numbers, or touch **Color Ring** then **Mode+**

Color Ring –The Color Ring can be used to select individual colors by touching the ring and sliding your finger around the ring,

Brightness – brightness can be increased or reduced in any mode using buttons 6 & 7

Cycle Speed – speed of color cycling in Modes 3 to 14 can be adjusted using buttons 5 & 8

REMOTE RANGE WALK TEST

Once the Illuminator 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.

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

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 Illuminator. The Illuminator will now respond to manual commands from the 2 control buttons as detailed below

OPERATION

The LED illuminator has 2 color cycles each with 3 different speed settings as detailed below

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

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

The Lower button STOPS and STARTS the color Cycle

The Upper button is used to select the Cycle speed as follows. Push the Lower button repeatedly until the color White is displayed. The illuminator is now in Cycle 1 speed A as detailed below. Each push reduces the speed. On the third push the color Red will be displayed. The illuminator 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 color and started again using the Lower push button

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

DMX OPERATION

The MicroLED4000M is programmed as a **Master** unit (See Mode designation label on rear of unit) and is capable of interlinking to a MicroLED **Slave** Illuminator using a RJ45 cable. In this Master /Slave configuration the Slave Illuminator will follow the Master Illuminator, but no control from a remote DMX controller is possible. Remote DMX control can only be achieved using MicroLEDSLAVE Illuminators. See MicroLEDSLAVE 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

TECHNICAL SPECIFICATIONS

Problem	Probable cause(s)	Remedy
Unit is dead - 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	LED array failure	Replace Illuminator
	May have been switched off using Remote Controller	Recycle power to Illuminator 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
	Illuminator Receiver Failing	Replace Illuminator
Unit won't respond to Remote Controller	Remote Controller batteries failed	Replace batteries and carry out matching if necessary
	Illuminator in stand alone mode	Recycle power to Illuminator
	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 Illuminator	Carry out "matching" procedure as detailed in REMOTE OPERATION
	Remote Controller failed	Replace Remote Controller
	Illuminator Receiver Failed	Replace Illuminator
Poor Light output on fiber	Unit needs cleaning	Carefully clean LED lens with dry cloth
		Clean Fiber common end
	Fiber port connector not plugged in correctly	Ensure plugged in correctly and secured with locking screw
In Stand Alone Mode - Stationery on one color	Lower Button has been pressed	Press Lower button once
	LED Driver has failed	Replace Illuminator
In Stand Alone Mode - Color cycle cannot be stopped	LED Driver has failed	Replace Illuminator

TECHNICAL SPECIFICATIONS

Description	Details
Port connector size	30mm
Fiber type	Glass/PMMA
Supply voltage	100-240V AC, 47- 63 Hz.0.58A
PSU Output	12V DC, 2A, 24W Maximum
LED Power	2 - 5W in color 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
Remote Controller Frequency	2.4Ghz
Remote Controller Range	30m (depending on environment)
Remote Controller Power	2 x AAA Batteries
Material	Aluminum
Color	Anodised Silver
Size	(L)190mm x(W) 68mm x (H)75mm
Weight (including PSU and remote control)	0.68kg

NOTES:

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