

PRODUCT USER GUIDE

Sirius Aqua Light Source



Rev: C9



PLEASE READ THIS USER GUIDE BEFORE INSTALLING, OPERATING
OR PERFORMING MAINTENANCE ON THE LIGHT SOURCE UNIT



IP67



INTRODUCTION

Thank you for purchasing this UFO light source/luminaire.
Please keep this user guide for future reference.

To ensure that the light source is set up optimally and gives a long service life, please read this user guide before installing, operating or performing any maintenance on the unit.

This user guide is laid out in 3 sections:

Installation - details on how to connect the luminaire

Operation - details on how to program and set up the luminaire

Maintenance - maintenance log, troubleshooting guide, technical specifications

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.

These light sources are not mains dimmable.

The LED array and heatsink in this light source can be replaced when it reaches end of life. Contact UFO for details.

Sealing: The light source is sealed for external use. All unused front plate connectors must have dust caps securely fitted at all times to maintain the seal. All used front plate connectors must have their corresponding plug securely connected at all times to maintain the seal. There is no access to internal components for maintenance. Maintenance shall be exclusively carried out by the manufacturer, his service agent or a similar qualified person.

Type Y Attachment: If the external flexible cable or cord supplied with this light source or that of the associated PSU/driver is damaged, it shall be exclusively replaced by the manufacturer or his service agent or a similar qualified person to avoid a hazard.

Location: Do not locate this light source closer than 200mm from any flammable surface.

Clearance / Ventilation: It is imperative that a gap of 200mm is left around the unit. This is to allow air to circulate and prevent overheating. The location must have free ventilation and must not have an ambient temperature higher than that specified for the unit.

Mounting: This luminaire comes with an integral mounting plate for securing the unit to a vertical or horizontal surface.



Warning: Never look directly at the luminaire through the fibre port of the light source.

Warning: The luminaire should be positioned so that staring into the luminaire at a distance closer than 2.7 metres is not expected.

UFO will accept no liability for damage, or associated claims, caused by not following the installation and safety instructions contained within this user guide.

IMPORTANT - SITING THE LIGHT SOURCE

Please note that although this light source is fully IP67 rated and can be used in wet/outdoor areas, it is not suitable for submersion in water and it should not be buried underground.

Also note that damage caused by salt water will void any and all warranties on the product and its exterior finish. UFO strongly recommend that the light source is not installed in any location where such damage may occur (for example, near the sea or in any other high saline environment).

SEA WATER & SALINE

Please be aware that UFO will not specify, supply or install this light source for use in any area where corrosion or damage from saline may occur. This includes near the sea, on ships or in any other areas where the light source would be in an unprotected area.

Damage caused by salt water due to improper, unprotected siting of the light source will void any and all UFO warranties on the product. UFO strongly recommend that the light source is not installed in any location where such damage may occur.

MODELS COVERED BY THIS USER GUIDE

UFO SIRIP-CW	UFO SIRIP-GW27	UFO SIRIP-GW-C	UFO SIRIP-NW-CF	UFO SIRIP-WW-T
UFO SIRIP-SW	UFO SIRIP-CW-C	UFO SIRIP- GW27-C	UFO SIRIP-GW-CF	UFO SIRIP-NW-T
UFO SIRIP-WW	UFO SIRIP-SW-C	UFO SIRIP-CW-CF	UFO SIRIP-GW27-CF	UFO SIRIP-GW-T
UFO SIRIP-NW	UFO SIRIP-WW-C	UFO SIRIP-SW-CF	UFO SIRIP-CW-T	UFO SIRIP-GW27-T
UFO SIRIP-GW	UFO SIRIP-NW-C	UFO SIRIP-WW-CF	UFO SIRIP-SW-T	

MODEL CODE EXPLANATION

Model Family	Colour Temperature	CRI	Model / Functionality
UFO SIRIP	CW - 5500K	75	No Suffix / white light only
	SW - 5300K	88	-C /decorative colour wheel
	WW - 3000K	83	-T / decorative twinkle wheel
	NW - 4000K	82	-F / separate feed
	GW - 3000K	98	All models have manual, 0-10V (current source) and DMX dimming
	GW27 - 2700K	98	Decorative models have manual, 0-10V (current source) and DMX wheel control

MODEL TYPES

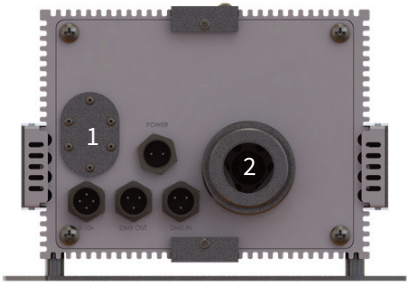
The Sirius Aqua is the standard Sirius 90W White Light LED light source with optional decorative wheel capability mounted inside a sealed IP67 enclosure. The following control functionality is available.

- 1. Manual dimming– internal controls
- 2. Manual Decorative Wheel control (various wheel speeds and stop/start) – internal controls
- 3. Separate Feed Decorative Wheel control (stop/start)
- 4. DMX dimming
- 5. DMX Decorative Wheel control
- 6. 0-10V Decorative Wheel control – channel 1 (receiving)
- 7. 0-10V dimming – channel 2 (receiving)

The Sirius Aqua LED light source is powered by an external 24V IP67 LED driver. The Sirius Aqua LED light source incorporates a range of LED arrays to provide optimum display and illumination within the following optical range.

Model	Colour Temperature	CRI	Lumen Output
UFO SIRIP-CW	5500°K	75	5700lm
UFO SIRIP-SW	5300°K	88	4650lm
UFO SIRIP-WW	3000°K	83	4650lm
UFO SIRIP-NW	4000°K	82	5300lm
UFO SIRIP-GW	3000°K	98	3450lm
UFO SIRIP-GW	2700°K	98	3450lm

FRONT PANEL OVERVIEW



- 1- Manual Control Access Hatch
- 2 - Sealed Fibre Optic Collar

OVERVIEW

The Sirius Aqua LED light source has no accessible external manual controls. Adjustment to the internal manual controls can be carried out via a sealed access hatch on the front plate.



WARNING

Before removing the sealed access hatch read the replacement procedure detailed below and ensure an appropriate torque driver is to hand.

When the sealed access hatch is removed it is recommended that this is not carried out in a wet environment (preferably indoors) and that open time is kept to an absolute minimum.

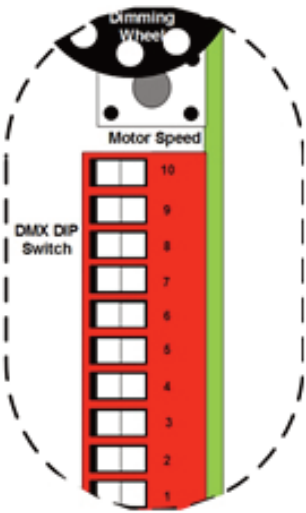
When the sealed access hatch is removed it is crucial to the integrity of the seal that the same screws are used to replace the hatch and the screws **MUST** be tightened as described in the procedure on this page.

Failure to follow this procedure may result in the loss of seal to the light source and will invalidate warranty.

INTERNAL MANUAL CONTROLS

The internal manual controls are:

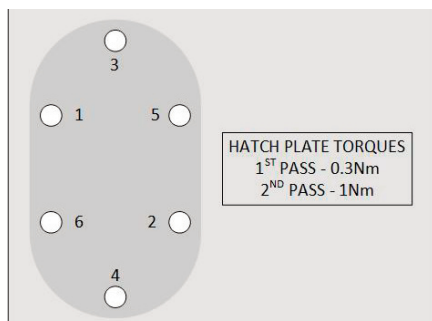
- 1. Manual Dimmer Control (0-100%)**
use a small screwdriver tip to gently rotate the dimming wheel – fully clockwise maximum light, fully counter clockwise no light
- 2. Manual Decorative Wheel Control (stop + 4 speeds)**
use a screwdriver tip to gently push the momentary action motor speed switch
- 3. DMX Address DIP Switch**
use a screwdriver tip to gently set switches 1 to 9 (down ON up OFF). Set the light source to Manual by gently using a screwdriver tip to set switch 10 (down ON up OFF)



VIEW THROUGH ACCESS HATCH

ACCESS PLATE REPLACEMENT PROCEDURE

1. Inspect the gasket to ensure it is unbroken and free of any debris
2. Loosely fasten the hatch plate to the front plate using the six self-sealing screws
3. Tighten the screws in the number order as shown in the drawing below
4. Firstly tighten to 0.3Nm the self-sealing screws one at a time (1 through 6) in the order specified
5. Secondly tighten to 1Nm the self-sealing screws one at a time 1 to 6 in the order specified



CONTROL FUNCTIONALITY AND CONFIGURATION OVERVIEW

1. Manual dimming using internal control as detailed
2. 0-10V (current source -receiving). - Two channels via front plate 4 pin socket dimming and wheel motor control - for decorative model. For separate feed decorative models the 0-10V wheel control input is used - See Accessories in Technical Specification section at end of this document for Separate Feed Unit
3. DMX control – 3 channels (dimming, decorative wheel control & LED/fan on and off) via front plate 3 pin sockets
4. Motor Control - manual decorative wheel control using internal control as detailed with speeds from stop to 4 rpm in increments. On Colour decorative wheel stop is on colour 1, on twinkle wheel stop is on open wheel segment (maximum light output)

CONNECTION - FOR BASIC OPERATION

There are two connections required – the fibre port and the power supply connections. The fibre port should be connected first before the mains supply.

Connect and secure the fibre optic connector on to the collar on the front plate of the unit. Ensure the fibre optic connector is fully inserted and hand tighten the locking screw.

Never run the luminaire with the fibre optic connector out of the collar.



WARNING

Front plate sockets without a dust cap or connector plugged in are not IP67 sealed. These sockets must ALWAYS have a dust cap or connector plugged in to maintain the IP seal.

Unscrew the dust cap from the 2 pin, Power In socket on the front plate and immediately plug the connector from the 24V IP67 LED driver in to the socket and hand tighten to maintain the seal.

Connect the LED driver mains cable to a local mains supply. Note: The 24V IP67 LED driver mains input cable is supplied with a mains connector/plug for the purpose of local internal testing only. This connector/plug is not suitable for external use. If the Sirius IP is used externally the test connector/plug must be removed and the cable must be terminated in a sealed enclosure (recommended minimum IP67) and connected as follows:

- Green/Yellow - earth/ground
- Blue - neutral
- Brown - live

Switch on power and the light source is ready for use.

If no light is produced consult the TROUBLESHOOTING section in this manual.

INSTALLATION

The fibre port should be connected first before the mains supply. Connect and secure the fibre optic connector on to the collar on the front plate of the unit. Ensure the fibre optic connector is fully inserted and hand tighten the locking screw.

Never run the luminaire with the fibre optic connector out of the collar.



Front plate sockets without a dust cap or connector plugged in are not IP67 sealed. These sockets must ALWAYS have a dust cap or connector plugged in to maintain the IP seal.

Wire up using the DMX cables from the DMX control system. Solder the cables to the 3 pin cable connectors using pin outs as detailed below. Note: the connector is viewed from the rear (inside). Unscrew the dust cap from the 3 pin, DMX sockets on the front plate and immediately plug the connectors into the sockets and hand tighten to maintain the seal.

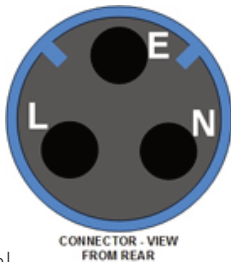
Unscrew the dust cap from the 2 pin, Power In socket on the front plate and immediately plug the connector from the 24V IP67 LED driver in to the socket and hand tighten to maintain the seal.

Connect the LED driver mains cable to a local mains supply. Note: The 24V IP67 LED driver mains input cable is supplied with a mains connector/plug for the purpose of local internal testing only. This connector/plug is not suitable for external use. If the Sirius IP is used externally the test connector/plug must be removed and the cable must be terminated in a sealed enclosure (recommended minimum IP67) and connected as follows:

- Green/Yellow - earth/ground
- Blue - neutral
- Brown - live

Switch on power and the light source is ready for use.

If no light is produced consult the TROUBLESHOOTING section in this manual.



DMX 3 PIN CONNECTOR

PIN	DESCRIPTION
E	DMX DATA +
L	GROUND
N	DMX DATA -

- To alter the DMX address refer to page 5 in the Installation section and page 13 of the Operation section of this document.
- Always use an approved DMX cable appropriate for the environment in which the Sirius Aqua is located.
- Always “daisy chain” a DMX cable or universe.
- Never use a T joint on a DMX cable or universe, unless using an approved interface or splitter.
- Never connect more than 30 devices to a single DMX universe unless using an approved interface or splitter.
- Always terminate the last device on a DMX universe by connecting a 120 ohm resistor across DMX + and DMX – across the last output connector.
- This is a 3 channel DMX device always leave 3 channels free when addressing multiple Sirius Aqua luminaires i.e. address 001, 004, 007 etc.

INSTALLATION

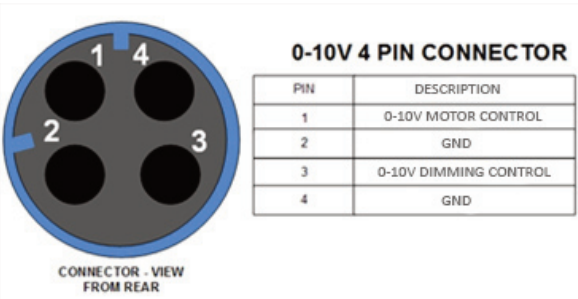
The fibre port should be connected first before the mains supply. Connect and secure the fibre optic connector on to the collar on the front plate of the unit. Ensure the fibre optic connector is fully inserted and hand tighten the locking screw.

Never run the luminaire with the fibre optic connector out of the collar.



Front plate sockets without a dust cap or connector plugged in are not IP67 sealed. These sockets must ALWAYS have a dust cap or connector plugged in to maintain the IP seal.

Wire up using the 0-10V cable from the 0-10V control system. Solder the cables to the 4 pin cable connector using pin outs as detailed below. Note: the connector is viewed from the rear (inside). Unscrew the dust cap from the 4 pin, 0-10V socket on the front plate and immediately plug the connector into the socket and hand tighten to maintain the seal.



- This is a current source 0-10V control system. The input from the 0-10V controller (source) supplies a varying control voltage between 0 and 10v to the luminaire to control either the dimming or the decorative wheel motor, or both the dimming and the decorative wheel motor.
- Always use an approved cable appropriate for the environment in which the Sirius Aqua is located
- With no 0-10V input the luminaire will give no light output and the decorative wheel will be stationary

Unscrew the dust cap from the 2 pin, Power In socket on the front plate and immediately plug the connector from the 24V IP67 LED driver in to the socket and hand tighten to maintain the seal.

Connect the LED driver mains cable to a local mains supply. Note: The 24V IP67 LED driver mains input cable is supplied with a mains connector/plug for the purpose of local internal testing only. This connector/plug is not suitable for external use. If the Sirius IP is used externally the test connector/plug must be removed and the cable must be terminated in a sealed enclosure (recommended minimum IP67) and connected as follows:

- Green/Yellow - earth/ground
- Blue - neutral
- Brown - live

Switch on power and the light source is ready for use.

If no light is produced consult the TROUBLESHOOTING section in this manual.

INSTALLATION

The fibre port should be connected first before the mains supply. Connect and secure the fibre optic connector on to the collar on the front plate of the unit. Ensure the fibre optic connector is fully inserted and hand tighten the locking screw.

Never run the luminaire with the fibre optic connector out of the collar.



Front plate sockets without a dust cap or connector plugged in are not IP67 sealed. These sockets must ALWAYS have a dust cap or connector plugged in to maintain the IP seal.

The separate feed unit comes with a prewired connector. Unscrew the dust cap from the 4 pin, 0-10V socket on the front plate and immediately plug the separate feed connector into the socket and hand tighten to maintain the seal.

Unscrew the dust cap from the 2 pin, Power In socket on the front plate and immediately plug the connector from the 24V IP67 LED driver in to the socket and hand tighten to maintain the seal.

Connect the LED driver mains cable to a local mains supply. Note: The 24V IP67 LED driver mains input cable is supplied with a mains connector/plug for the purpose of local internal testing only. This connector/plug is not suitable for external use. If the Sirius IP is used externally the test connector/plug must be removed and the cable must be terminated in a sealed enclosure (recommended minimum IP67) and connected as detailed below.

Take the unterminated mains cable connected to the separate feed unit and connect into the separate feed mains supply.

If used externally the cable must be terminated in a sealed enclosure (recommended minimum IP67) and connected as follows:

- Green/Yellow - earth/ground
- Blue - neutral
- Brown - live

Switch on power and the light source is ready for use.

If no light is produced consult the TROUBLESHOOTING section in this manual.

NOTE: THE SEPARATE FEED INTERFACE IS ONLY COMPATIBLE AND WILL ONLY WORK WITH THE FOLLOWING SIRIUS IP MODELS

UFO SIRIP-CW-CF	UFO SIRIP-SW-CF	UFO SIRIP-WW-CF
UFO SIRIP-NW-CF	UFO SIRIP-GW-CF	UFO SIRIP-GW27-CF

REMOTE CONTROL WHITE LIGHT AND DECORATIVE OPERATION

The Sirius Remote Control interface is an external unit supplied as an accessory by UFO which: Allows the user to dim and/or alter the Sirius IP decorative motor speed (twinkle or colour wheel), without having to access the Sirius IP internal manual controls

For Remote Control interface operation to work the controls behind the front plate hatch plate must be set as follows:

- DIP switch 10 must be ON
- Manual Dimming Control must be turned to minimum (fully counter clockwise).
- Motor speed switch set to STOP

This is normally done at the factory prior to sealing the unit.

If the controls behind the hatch plate have to be accessed in the field, then it must be as detailed in previous Installation section page 5.

The 4 pin connector must be plugged securely into the 0-10V socket on the front plate.

Once connected the Sirius Remote Control interface unit can be used to

- Dim the light source using the dimming control on the interface
- Control via a 5 way DIP switch, the Sirius IP decorative motor speed as follows:

0.6rpm / 1rpm / 2rpm / 5rpm / 7rpm

For more information consult the UFO Sirius IP Remote Control interface user guide.

MANUAL OPERATION - DECORATIVE COLOUR WHEEL CONTROL WITH SENSOR

For normal manual operation to work the controls behind the front plate hatch plate must be set as follows:

- DIP switch 10 must be ON
- Manual dimming control must be turned to desired level
- Manual decorative wheel control set to desired motor speed

This is normally done at the factory prior to sealing the unit. **If the controls behind the hatch plate have to be accessed in the field, then it must be as detailed in previous Installation Section on page 5.**

During normal manual decorative operation using the controls behind the front plate hatch plate, the light source can be dimmed from 0 to 100% using the manual dimming control and the motor can be controlled from stop to 4 speeds (see table below) using the push button manual motor control.

Note: When manually selecting stop (switch position 5) the decorative wheel will automatically return to colour 1 (normally white)

Switch Position	1	2	3	4	5
Speed (RPM)	1.6	2.6	3.75	5.5	Stop

MANUAL OPERATION - DECORATIVE TWINKLE WHEEL CONTROL WITH SENSOR

For normal manual operation to work the controls behind the front plate hatch plate must be set as follows:

- DIP switch 10 must be ON
- Manual dimming control must be turned to desired level
- Manual decorative wheel control set to desired motor speed

This is normally done at the factory prior to sealing the unit. **If the controls behind the hatch plate have to be accessed in the field, then it must be as detailed in previous Installation Section on page 5.**

During normal manual decorative operation using the controls behind the front plate hatch plate, the light source can be dimmed from 0 to 100% using the manual dimming control and the motor can be controlled with stop + 5 speeds ranging from very slow to fast using the push button manual motor control.

Note: for this configuration of a twinkle wheel with sensor, the wheel is supplied with a cut out segment. The wheel in motion will give an uninterrupted twinkle by rotating backwards and forwards either side of the segment. When stop is selected the wheel will come to rest at the segment giving unobstructed white light output.

DMX OPERATION

For DMX dimming and control operation the controls behind the front plate hatch plate must be set as follows. DIP switch 10 must be OFF and the DIP switch set to the required DMX address.

This is normally done at the factory prior to sealing the unit. **If the controls behind the hatch plate have to be accessed in the field, then it must be as detailed in previous Installation Section on page 5.** The 3 pin DMX connectors must be plugged securely into the DMX sockets on the front plate.

DMX CHANNELS

Each Sirius Aqua occupies 3 DMX channels as detailed in the following tables. When selecting DMX addresses 3 channels must be available, for example if the first Sirius is addressed to 009 the next must be 012, the next must be 015 and so on.

SETTING THE DMX ADDRESS

The DMX address of each Sirius Aqua is set manually using the DIP switch located behind the hatch plate. Each switch number 1-9 indicates a binary number which when added together make up the DMX address as shown below.

Alternatively use the on line calculator from the link below:
<http://sabretechnology.co.uk/calc.asp>

Switch Number	1	2	3	4	5	6	7	8	9	10
Function	DMX Address	DMX Address	DMX Address	DMX Address	DMX Address	DMX Address	DMX Address	DMX Address	DMX Address	Function select On - manual or 0-10V Off - DMX
Value	1	2	4	8	16	32	64	128	256	
Addresses are additive - for example, switches 2,5,7 on = address 082										

DMX OPERATION - WHITE LIGHT ONLY

Each white light only Sirius Aqua occupies 3 DMX channels (including redundant channel 2) as detailed in the following table:

Channel	Function	DMX Value	Description
1	LED Dimming	0-255	From off at 0 to brightest at 255
2	Decorative wheel control	N/A	Channel 2 redundant in this version
3	On/off control	0-250	LED and fan on
3	On/off control	251-255	LED and fan off

DMX OPERATION - DECORATIVE COLOUR WHEEL

Each decorative Sirius Aqua occupies 3 DMX channels as detailed in the following table:

Channel	Function	Value	Description
1	LED dimming	0-255	From off at 0 to brightest at 255
2	Decorative wheel	0-10	White - snap to colour (colour 1)
2	Decorative wheel	11	Yellow - snap to colour (colour 2)
2	Decorative wheel	21	Green - snap to colour (colour 3)
2	Decorative wheel	31	Orange - snap to colour (colour 4)
2	Decorative wheel	41	Magenta - snap to colour (colour 5)
2	Decorative wheel	51-70	Blue - snap to colour (colour 6)
2	Decorative wheel	71	Magenta - snap to colour (colour 5)
2	Decorative wheel	81	Orange - snap to colour (colour 4)
2	Decorative wheel	91	Green - snap to colour (colour 3)
2	Decorative wheel	101	Yellow - snap to colour (colour 2)
2	Decorative wheel	111	White - snap to colour (colour 1)
2	Decorative wheel	128-188	Slow to fast rotation clockwise
2	Decorative wheel	189-255	Fast to slow rotation ctr clockwise
3	LED and fan	0-250	LED and fan on
3	LED and fan	251-255	LED and fan off

0-10V OPERATION

For standard decorative wheel (Colour and Twinkle) the wheel has a sensor which resets the wheel to white light at 0 volts. Non-standard decorative models without a sensor are available see operation section below.

For 0-10v dimming operation to work the controls behind the front plate hatch plate must be set as detailed below

For white light only models:

- DIP switch 10 must be ON
- Manual Dimming Control must be turned to minimum (fully counter clockwise).

For decorative (Twinkle & Colour Wheel) models:

- DIP switch 10 must be ON
- Manual Dimming Control must be turned to minimum (fully counter clockwise)
- Motor speed switch set to STOP

This is normally done at the factory prior to sealing the unit. **If the controls behind the hatch plate have to be accessed in the field, then it must be as detailed in previous Installation Section page 5.** The 4 pin connector must be plugged securely into the 0-10V socket on the front plate.

NORMAL WHITE LIGHT DIMMING

For white light only models the Light Source can be dimmed from 0 (0 Volts DC) to 100% (10V DC) with a receiving 0-10V signal

EMERGENCY WHITE LIGHT DIMMING

For emergency white light only models the Light Source can be dimmed with a receiving 0-10V signal as detailed in the table below:

Function	Value DC	Description
Maximum light	0V	Maximum light output - default control emergency mains failure
Minimum light	1V	Minimum light output - normal dimming control
Maximum light	10V	Maximum light output - normal dimming control

Note: in this configuration when the mains supply to the 0-10V controller fails, the illuminator will illuminate fully as an emergency light

STANDARD DECORATIVE COLOUR WHEEL

For decorative colour wheel models the Light Source can be dimmed from 0 (0 Volts DC) to 100% (10V DC) and the decorative colour wheel can be controlled with a receiving 0-10V signal as detailed in the following table.

Function	Value	Description
Colour wheel	0V	White (Colour 1)
Colour wheel	0.7V	Yellow (Colour 2)
Colour wheel	1.0V	Green (Colour 3)
Colour wheel	1.4V	Orange (Colour 4)
Colour wheel	1.8V	Magenta (Colour 5)
Colour wheel	2.3V	Blue (Colour 6)
Colour wheel	3V	Magenta (Colour 5)
Colour wheel	3.4V	Orange (Colour 4)
Colour wheel	3.7V	Green (Colour 3)
Colour wheel	4.1V	Yellow (Colour 2)
Colour wheel	4.6V	White (Colour1)
Colour wheel	5.0V to 7.3V	Slow to fast clockwise rotation
Colour wheel	7.4V to 10V	Fast to slow counter clockwise rotation

STANDARD DECORATIVE TWINKLE WHEEL

For decorative twinkle wheel models the Light Source can be dimmed from 0 (0 Volts DC) to 100% (10V DC) and the decorative twinkle wheel can be controlled with a receiving 0-10V signal to give stop (0V DC) to varying speeds (0.5 to 10V DC) ranging from very slow to fast.

Note: for this configuration of a twinkle wheel with sensor, the wheel is supplied with a cut out segment. The wheel in motion will give an uninterrupted twinkle by rotating backwards and forwards either side of the segment. When 0V is selected the wheel will come to rest at the segment giving unobstructed white light output.

NON-STANDARD DECORATIVE COLOUR AND TWINKLE WHEEL (NO WHEEL SENSOR)

For non-standard decorative colour and twinkle wheel models without wheel sensor the Light Source can be dimmed from 0 (0 Volts DC) to 100% (10V DC) and the decorative colour or twinkle wheel can be controlled with a receiving 0-10V signal to give stop (0V DC) to varying speeds (0.5 to 10V DC) ranging from very slow to fast.

Note: for this configuration of a twinkle wheel without sensor, the wheel is supplied without a cut out segment. The wheel in motion will give an uninterrupted twinkle and when 0V is selected the wheel will stop giving an obstructed white light output.

DMX OPERATION - DECORATIVE TWINKLE EFFECT WHEEL

Each decorative Sirius Aqua occupies 3 DMX channels as detailed in the following table:

Channel	Function	Value	Description
1	LED dimming	0-255	From off at 0 to bright at 255
2	Twinkle wheel	0	Wheel stopped at cut out
2	Twinkle wheel	1-255	Varying speeds backwards and forwards rotation up to 7.5rpm maximum
3	On/off control	0-250	LED and fan on
3	On/off control	251-255	LED and fan off

Note: The decorative effect twinkle wheel is supplied with a cut out segment. The wheel in motion will give an uninterrupted twinkle by rotating backwards and forwards either side of the cut out segment. When the wheel is stopped, (DMX value 0) the wheel will come to rest at the cut out giving an unobstructed white light output.

SEPARATE FEED DECORATIVE OPERATION

The Sirius Separate Feed is an external unit supplied as an accessory by UFO which:

- Allows the user to alter the Sirius Aqua decorative motor speed (twinkle or colour wheel) without having to access the Sirius Aqua internal manual controls
- Allows stopping and starting of the Sirius Aqua decorative motor via a remote switched separate mains supply feed

For separate feed control operation to work the controls behind the front plate hatch plate must be set as follows:

- DIP switch 10 must be ON
- Manual Dimming Control must be turned to minimum (fully counter clockwise)
- Motor speed switch set to STOP

This is normally done at the factory prior to sealing the unit.

If the controls behind the hatch plate have to be accessed in the field, then it must be as detailed in previous Installation section page 5.

The 4 pin connector must be plugged securely into the 0-10V socket on the front plate.

Once connected the Sirius Separate Feed unit can be used to control via a 5 way DIP switch, the Sirius Aqua decorative motor speed as follows:

0.6rpm / 1rpm / 2rpm / 5rpm / 7rpm

For more information consult the UFO Sirius Aqua Separate Feed user guide.

NOTE: THE SEPARATE FEED INTERFACE IS ONLY COMPATIBLE AND WILL ONLY WORK WITH THE FOLLOWING SIRIUS IP MODELS

UFO SIRIP-CW-CF	UFO SIRIP-SW-CF	UFO SIRIP-WW-CF
UFO SIRIP-NW-CF	UFO SIRIP-GW-CF	UFO SIRIP-GW27-CF

MAINTENANCE

To ensure a long working life and the safe, reliable operation of the light source, it is very important to maintain it properly and ensure it is installed in an appropriate and safe location.

Before performing any maintenance on the light souce it should be disconnected from the power supply and allowed to cool down.

- The light source fans and vents should be blown out with compressed air at least every 12 months, or more often if located in a dusty environment.
- Do not allow dust to build up on internal pcb's & components as this will increase heat within the light source and lead to failure. Units should be checked regularly and all dust must be vacuumed off. Failure caused by excessive dust will not be covered under warranty.
- After the light source has been installed, check the fans and vents to ensure they are clear of dust and debris. Blow out with compressed air if required.
- The body of the light source can be cleaned using a soft damp cloth. Do not use any abrasives on the unit.

Note that a record of all maintenance **MUST** be kept in the table below, indicating what maintenance was undertaken. This must be dated and is required for warranty purposes.

SAFETY GUIDANCE

- A gap of 200mm (8") **MUST** be left around the unit. This is to allow air to circulate and prevent overheating. The location must have free ventilation and must not have an ambient temperature higher than that specified for the luminaire.
- The outer body of the light source may become hot - keep away from all combustible materials and **DO NOT** locate this light source within 200mm (8") of any flammable surface.
- The light source must not be run without the fibre optic harness fitted.

MAINTENANCE LOG

Date	Maintenance Undertaken

Problem	Possible cause	Possible Solution
ALL MODELS Unit is dead – no light output. Fan not running	Mains supply off.	Check supply and reinstate
	Loose connector(s) or faulty connection/cable	Check all cables/connections. Check plugs and sockets are fully mated.
	IP67 PSU failed	Get replacement from UFO
	Unit in DMX control mode but channel value set to >250	Decrease channel 3 DMX controller value to <251
ALL MODELS Unit is dead – no light output, fans are running	Unit in manual control mode and dimming at 0%	Check method for manual operation in User Guide and manually set dimming level to give required light output
	Unit in 0-10V control mode but no 0-10V control voltage present	Check 0-10v control voltage and reinstate
	Unit in 0-10V control mode but control voltage set to 0	Increase 0-10V to give required light output
	Unit in DMX control mode but channel 1 value set to 0	Increase channel 1 DMX controller value
	Failed array or internal component	Contact UFO
MANUAL MODELS No manual control over dimming and/or decorative wheel speed	DIP switch 10 switched OFF	Check method for manual operation in User Guide and manually set DIP switch 10 ON
	Internal component failure	Contact UFO
DMX MODELS No DMX control over dimming and other DMX functions	Unit not receiving a DMX signal from controller	Check DMX controller
	Faulty DMX cable	Check DMX cabling and repair/replace
	Unit not in DMX control mode DIP switch 10 ON	Check method for manual operation in User Guide and manually set DIP switch 10 OFF
	DMX address not correctly set	Check method for manual operation in User Guide and manually set DIP switch to correct DMX address
DMX MODELS Random/wrong function DMX control over dimming and other DMX functions	Incorrect DMX address set possibly not enough channel space left between addresses	Check method for manual operation in User Guide and manually set DIP switch to leave adequate space for 3 channels of DMX between addresses
	Cable fault corrupting data	Check DMX cabling and repair/replace
0-10V MODELS No control over dimming and/or decorative wheel speed Unit is dead – no light output, fans are running	Fault on 0-10V cabling, reverse polarity or open circuit	Check 0-10V cabling and repair/replace
SEPARATE FEED MODELS No control over decorative wheel	Separate feed mains supply lost	Check mains supply and reinstate
	Separate Feed unit internal fuse blown	Replace fuse
	Separate Feed unit faulty	Get replacement from UFO

TECHNICAL SPECIFICATION

Description	Details
Port connector size	30mm diameter
Fibre type	Glass / PMMA
Supply Voltage	24V DC, 3.75A 90W Max
LED Type	LED engine L2P 24 die emitter
LED Power	90W
Mains Running Current	420mA max.
Mains Voltage VA rating	100VA
Motor Type	Rotalink 25C13/YS0LPSL3E 12V 60:1
External PSU Type	24V IP67 LED driver
LED Type/Model	White light (optional decorative wheel)
LED Life	40,000 hours typical
Cool white LED array	5500K, 75CRI, 5700lm
Studio white LED array	5300K, 88CRI, 4650lm
Neutral white LED array	4000K, 82CRI, 5300lm
Warm white LED array	3000K, 83CRI, 4650lm
Gallery white LED array	3000K, 98CRI, 3450lm
DMX	User addressable (0-255) dimming, effects wheel control and on/off
Control Functionality	Manual / DMX / 0-10V dimming
Operating Environment	External (Laboratory tested to IP67)
Min Ambient Temperature	-10°C
Max Ambient Temperature	+45°C
Material	Aluminium
Finish	Hard Anodised
Dimensions (L x W x H)	330mm (13") x 240mm (9.4") x 164mm (6.5")
Weight	6.66kg (decorative) 6.46kg (white light only)

ACCESSORIES

A range of accessories are available for the Sirius Aqua light source. To order, or for more information, please contact your UFO sales representative.

- 24V IP67 PSU with IP68 connector
- 2 pole IP68 solder pin power connector
- 3 pole IP68 solder pin DMX connector
- 4 pole IP68 solder pin 0-10V connector
- 2m DMX data cable with IP68 connector
- 2m 0-10V data cable with IP68 connector
- Separate feed interface
- Remote control interface

ADDITIONAL MAINTENANCE LOG

ADDITIONAL MAINTENANCE LOG

[illegible]



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