User Guide

UFO SIRIUS-S
ILLUMINATOR RANGE

Rev. D2 USA

This guide contains important safety information and installation instructions.

Please read fully before installing, operating or performing any maintenance on the product.

02 Introduction

Thank you for purchasing this UFO illuminator.

To ensure that the illuminator is set up optimally and gives a long service life, it is important that this user guide is read and understood before installing, operating or performing any maintenance on the unit. Please retain this user guide for future reference.

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

Features

The Sirius-S is a 75W LED illuminator which is designed for the illumination of both glass and PMMA fiber optic cable. The Sirius-S LED illuminator can be specified and manufactured in either white light only or decorative models.

Both white light and decorative models feature dimmable light output controllable via the methods shown below.

Additionally, decorative variants have an inbuilt effects wheel which allows for either color change or twinkling effects to be controlled via the methods shown below.

- In-built manual controls
- 0-10V control
- 1-10V control
- DMX control

There is also on option for the illuminator to be dimmed remotely using a simple passive potentiometer control.

Important Safety Information

- 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 illuminators are not mains dimmable.

- The LED array in this illuminator is not replaceable. When it reaches end of life the whole unit must be replaced.

- Type Y Attachment: If the external flexible cable or cord of this luminaire or 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 illuminator 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 feet for securing the unit to a vertical or horizontal surface.

- Warning: Never look directly at the luminaire through the fiber port of the illuminator.

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

- Warning: To reduce the risk of strangulation the flexible wiring connected to this luminaire shall be effectively fixed to the wall if the wiring is within arm's reach.

04 Model Guide

Model Product Codes

Product Code	CCT	CRI	Control
UFO SIRS-2290-X	2200K	90	Dimming Only
UFO SIRS-2790-X	2700K	90	Dimming Only
UFO SIRS-3090-X	3000K	90	Dimming Only
UFO SIRS-4090-X	4000K	90	Dimming Only
UFO SIRS-2290-E	2200K	90	Dimming & Emergency
UFO SIRS-2790-E	2700K	90	Dimming & Emergency
UFO SIRS-3090-E	3000K	90	Dimming & Emergency
UFO SIRS-4090-E	4000K	90	Dimming & Emergency
UFO SIRS-2290-C	2200K	90	Color Change & Dimming
UFO SIRS-2790-C	2700K	90	Color Change & Dimming
UFO SIRS-3090-C	3000K	90	Color Change & Dimming
UFO SIRS-4090-C	4000K	90	Color Change & Dimming
UFO SIRS-2290-T	2200K	90	Twinkle & Dimming
UFO SIRS-2790-T	2700K	90	Twinkle & Dimming
UFO SIRS-3090-T	3000K	90	Twinkle & Dimming
UFO SIRS-4090-T	4000K	90	Twinkle & Dimming

Control Overview 05

The Sirius-S is white light LED illuminator with optional decorative wheel capability. The illuminator driver PCB has all the control functionality fitted as standard. The following control functionality and configurations are available via rear panel connections, push buttons and LCD display.

1. Manual dimming using rear panel push button controls with status display

2. Manual dimming using a remote potentiometer

3. 0-10V (current source - receiving). Dimming only for two white light models. Two versions for white light only – standard and emergency light. Emergency light version reverts to maximum light output when mains power to the 0-10V control system is lost

4. 0-10V (current source -receiving). Two channels dimming and wheel motor control for decorative model. For separate feed decorative models the 0-10V wheel control input is used

5. 1-10V dimming – one channel (current sink -sending). Dimming for standard white light only, not available in emergency white light or decorative wheel versions

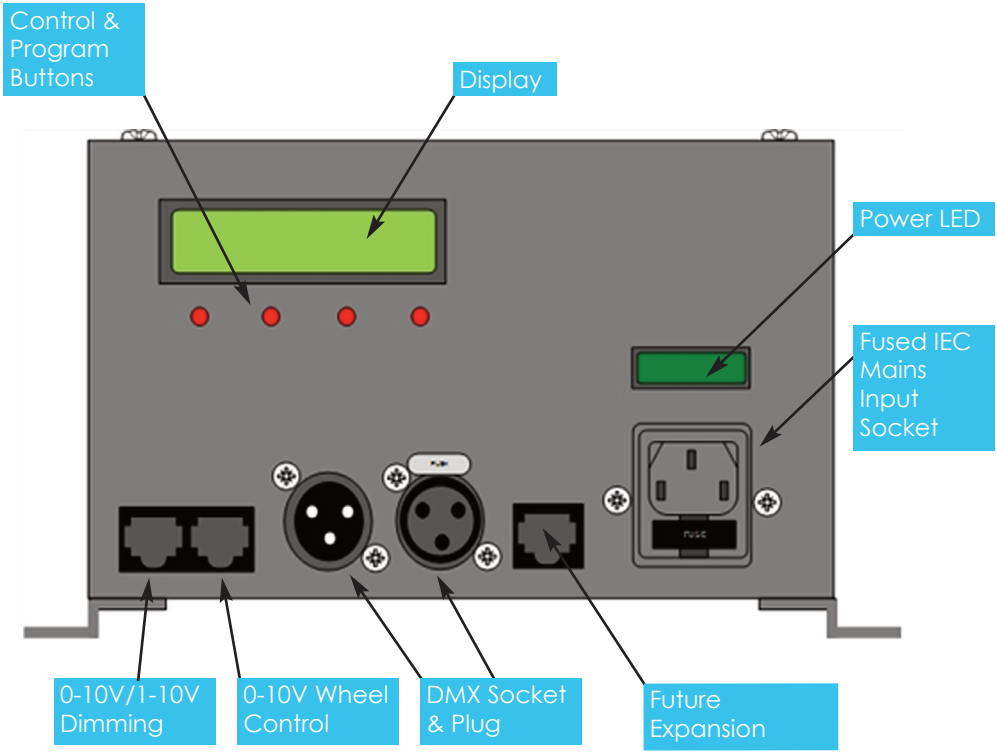
6. DMX dimming – 5 channels (dimming, color wheel control, color wheel duration, twinkle wheel control, initialise / reset / LED / fan on and off) not available in emergency white light

7. Motor Control over manual decorative wheel control with speeds from stop to 4 rpm in increments. On Color decorative wheel stop is on color 1, on twinkle wheel stop is on open wheel segment (maximum light output)

8. 28 standalone decorative programmes with bi-directional variable wheel speed control

9. Primary, secondary functionality – one Sirius-S acting as primary controlling secondary Sirius-S luminaire(s) via DMX links

06 Control Overview



Connection - Manual Control Models

Firstly plug the fiber optic harness' connector into the fiber port on the front face of the illuminator.

Ensure the connector is pushed in as far as it will go and then tighten the M5 brass screw to secure it in place.

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

Insert the IEC power cable connector into the IEC input on the rear of the illuminator and then switch on the power. The power LED will illuminate and the Sirius-S will run through an initialisation which shows the software version and model type - white light or decorative.

Light should then be produced from the fiber port and the fiber harness or its end fittings should illuminate.

If no light is produced then consult the troubleshooting section at the end of this guide.

08 Connection

Connection - For Remote Manual Control Operation

This connection method allows the luminaire to be dimmed remotely using a simple passive potentiometer control.

Firstly plug the fiber optic harness' connector into the fiber port on the front face of the illuminator.

Ensure the connector is pushed in as far as it will go and then tighten the M5 brass screw to secure it in place.

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

Connect the remote dimmer to the left hand RJ45 connector - see opposite page for details of wiring and connection

Insert the IEC power cable connector into the IEC input on the rear of the illuminator and then switch on the power. The power LED will illuminate and the Sirius-S will run through an initialisation which shows the software version and model type - white light or decorative.

Light should then be produced from the fiber port and the fiber harness or its end fittings should illuminate.

If no light is produced then consult the troubleshooting section at the end of this guide.

Accessory - Remote Potentiometer UFO SIRS-RPOT

A potentiometer mounted on a 1.2m long flying lead. This allows for manual dimming when the control panel is inaccessible.

Note that when the flying lead is connected the RJ45 port the illuminator cannot be controlled by either DMX or 010V options.

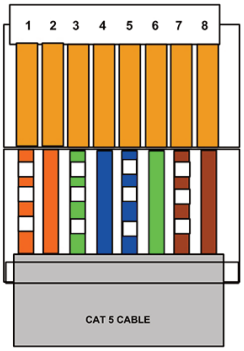
Remote Manual Control Operation - Potentiometer Wiring

Connect the remote dimmer cable (typically CAT5) to the dimmer as shown below.

Wire up and connect the RJ45 plug to the Sirius-S end of the dimmer cable and plug into connector A the left hand RJ45 on the rear of the luminaire using pin outs as detailed below.

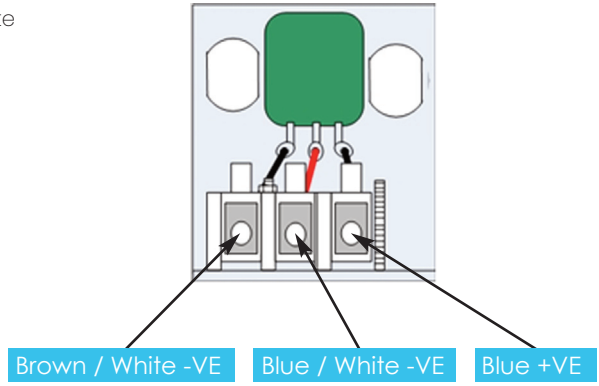
Only the left hand RJ45 connector is used to control dimming in this way.

RJ45 Connector
Clip Down, Pins Up

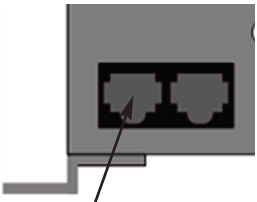


1 - Orange / White
2 - Orange
3 - Green / White
4 - Blue
5 - Blue / White
6 - Green
7 - Brown / White
8 - Brown

CVD1 Dimmer and Plate



RJ45 Pin No.	Wire Color	Polarity	Function
4	Blue	+VE	Positive 10V Dimming Supply
5	Blue / White	+VE	Positive (10V) 0-10V Current Source Dimming
7	Brown / White	-VE	GND (0V) Remote Potentiometer Dimming



- Always use an approved CAT5 cable
- Use a 10kΩ linear potentiometer connected across pins 4, 5 and 7
- The CVD1 is designed to be fitted to the back of a one gang faceplate

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Connection - For DMX Operation

Firstly plug the fiber optic harness' connector into the fiber port on the front face of the illuminator.

Ensure the connector is pushed in as far as it will go and then tighten the M5 brass screw to secure it in place.

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

Connect the appropriate DMX cable(s) to the XLR connectors on the rear of the illuminator. See opposite page for details of wiring and connection

Insert the IEC power cable connector into the IEC input on the rear of the illuminator and then switch on the power. The power LED will illuminate and the Sirius-S will run through an initialisation which shows the software version and model type - white light or decorative.

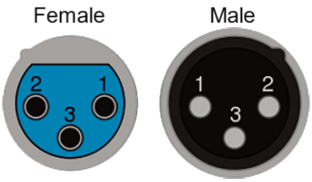
Light should then be produced from the fiber port and the fiber harness or its end fittings should illuminate.

If no light is produced then consult the troubleshooting section at the end of this guide.

DMX Operation - Wiring Guide & Notes

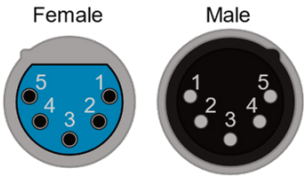
- Always use an approved DMX cable
- Always "daisy chain" a DMX cable or universe
- Never use a T joint on a DMX cable or universe, unless using and approved interface or splitter
- Never connect more than 30 devices to a single DMX universe unless using and approved interface or splitter
- Always terminate the last device on a DMX universe by connecting a 120 ohm resistor across DMX+ and DMX- across the last output connector
- White light models are 2 channel DMX devices - always leave another channel free when addressing multiple white light Sirius-S units i.e. address 001, 003, 005 etc.
- Decorative models are 4 channel DMX devices - always leave 3 channels free when addressing multiple decorative Sirius-S units i.e. address 001, 005, 009 etc.

3 PIN XLR CONNECTORS



Pin	Description
1	GND / Shield
2	Data - (cold)
3	Data + (hot)

5 PIN XLR CONNECTORS



Pin	Description
1	GND / Shield
2	Data - (cold)
3	Data + (hot)
4	Not used
5	Not used

12 Connection

Connection - For 1-10V (Current Sink) White Light Dimming

This is a current sink 1-10V control system. A 10V output from the luminaire is connected via an external 1-10V current sink dimmer varying the circuit current to control the dimming.

Firstly plug the fiber optic harness' connector into the fiber port on the front face of the illuminator.

Ensure the connector is pushed in as far as it will go and then tighten the M5 brass screw to secure it in place.

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

Connect the remote dimmer to the left hand RJ45 connector - see opposite page for details of wiring and connection

Insert the IEC power cable connector into the IEC input on the rear of the illuminator and then switch on the power. The power LED will illuminate and the Sirius-S will run through an initialisation which shows the software version and model type - white light or decorative.

Light should then be produced from the fiber port and the fiber harness or its end fittings should illuminate.

If no light is produced then consult the troubleshooting section at the end of this guide.

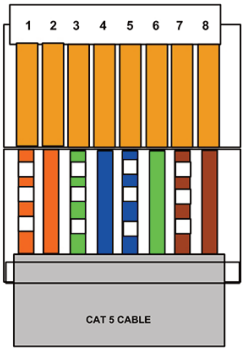
1-10V Control Operation - Potentiometer Wiring

Connect the remote dimmer cable (typically CAT5) to the dimmer as shown below.

Wire up and connect the RJ45 plug to the Sirius-S end of the dimmer cable and plug into connector A the left hand RJ45 on the rear of the luminaire using pin outs as detailed below.

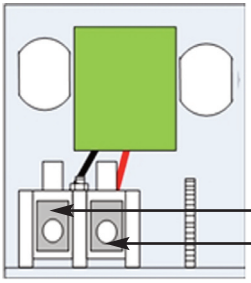
Only the left hand RJ45 connector is used to control dimming in this way.

RJ45 Connector
Clip Down, Pins Up

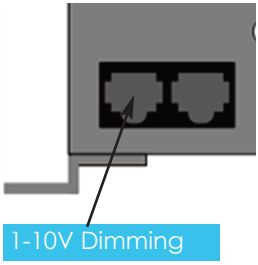


1 - Orange / White
2 - Orange
3 - Green / White
4 - Blue
5 - Blue / White
6 - Green
7 - Brown / White
8 - Brown

CVD3 Dimmer and Plate



RJ45 Pin No.	Wire Color	Polarity	Function
3	Green / White	+VE	Positive (10V) 1-10V Current Sink Dimming
1	Orange / White	-VE	GND (0V) 1-10V Current Sink Dimming



- Always use an approved CAT5 cable
- Ensure correct connection polarity at all times
- See Accessories in Technical Specification section at end of this document for UFO CVD3 compliant dimmer
- The CVD3 is designed to be fitted to the back of a one gang faceplate

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Connection - For 0-10V (Current Source) Operation

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 dimming. In decorative illuminator models a 0-10V controller can also control the twinkle or color wheel.

Firstly plug the fiber optic harness' connector into the fiber port on the front face of the illuminator.

Ensure the connector is pushed in as far as it will go and then tighten the M5 brass screw to secure it in place.

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

Connect the 0-10V controller to the rear RJ45 connectors - see opposite page for details of wiring and connection. On white light only models of the Sirius-S only the left hand RJ45 connector is required to control the dimming functionality. On decorative models the right hand connector is also required as it controls the decorative motor.

Insert the IEC power cable connector into the IEC input on the rear of the illuminator and then switch on the power. The power LED will illuminate and the Sirius-S will run through an initialisation which shows the software version and model type - white light or decorative.

Light should then be produced from the fiber port and the fiber harness or its end fittings should illuminate.

If no light is produced then consult the troubleshooting section at the end of this guide.

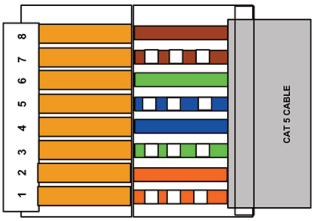
0-10V Control Operation - Controller Wiring

Connect the remote dimmer cable (typically CAT5) to the dimmer as shown below.

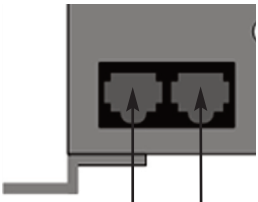
Wire up and connect the RJ45 plug to the Sirius-S end of the dimmer cable and plug into the RJ45 connectors on the rear of the luminaire using pin outs as detailed below.

On white light only models of the Sirius-S only the left hand RJ45 connector is required to control the dimming functionality. On decorative models the right hand connector is also required as it controls the decorative motor.

RJ45 Connector.Clip Down, Pins Up



1 - Orange / White
2 - Orange
3 - Green / White
4 - Blue
5 - Blue / White
6 - Green
7 - Brown / White
8 - Brown



0-10V Dimming | 0-10V Control

RJ45 Connector - Left Hand - Dimming

RJ45 Pin No.	Wire Color	Polarity	Function
5	Blue / White	+VE	Positive (10V) 0-10V Current Source Dimming
7	Brown / White	-VE	GND (0V) Current Source Dimming

RJ45 Connector - Right Hand - Dimming

RJ45 Pin No.	Wire Color	Polarity	Function
1	Orange / White	-VE	GND (0V) 0-10V Current Source Twinkle Motor
3	Green / White	+VE	Positive (10V) 0-10V Current Source Twinkle Motor
5	Blue / White	+VE	Positive (10V) 0-10V Current Source Color Motor
7	Brown / White	-VE	GND (0V) 0-10V Current Source Color Motor

- Always use an approved CAT5 cable
- With no 0-10V input the luminaire will give no light output

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Connection - For Primary / Secondary Operation

Firstly plug the fiber optic harness' connector into the fiber port on the front face of the illuminator.

Ensure the connector is pushed in as far as it will go and then tighten the M5 brass screw to secure it in place.

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

Connect the appropriate DMX cable(s) to the XLR connectors on the rear of the illuminator. See opposite page for details of wiring and connection

Insert the IEC power cable connector into the IEC input on the rear of the illuminator and then switch on the power. The power LED will illuminate and the Sirius-S will run through an initialisation which shows the software version and model type - white light or decorative.

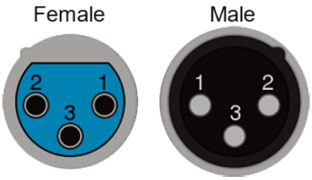
Light should then be produced from the fiber port and the fiber harness or its end fittings should illuminate.

If no light is produced then consult the troubleshooting section at the end of this guide.

DMX Operation - Wiring Guide & Notes

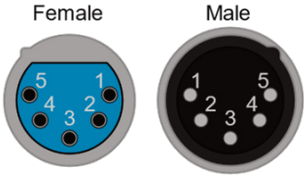
- Always use an approved DMX cable
- Always “daisy chain” a DMX cable or universe
- Never use a T joint on a DMX cable or universe, unless using and approved interface or splitter
- Never connect more than 30 devices to a single DMX universe unless using and approved interface or splitter
- Always terminate the last device on a DMX universe by connecting a 120 ohm resistor across DMX+ and DMX- across the last output connector
- For primary / secondary operation to work, all secondary illuminators must be set to DMX address 1.

3 PIN XLR CONNECTORS



Pin	Description
1	GND / Shield
2	Data - (cold)
3	Data + (hot)

5 PIN XLR CONNECTORS

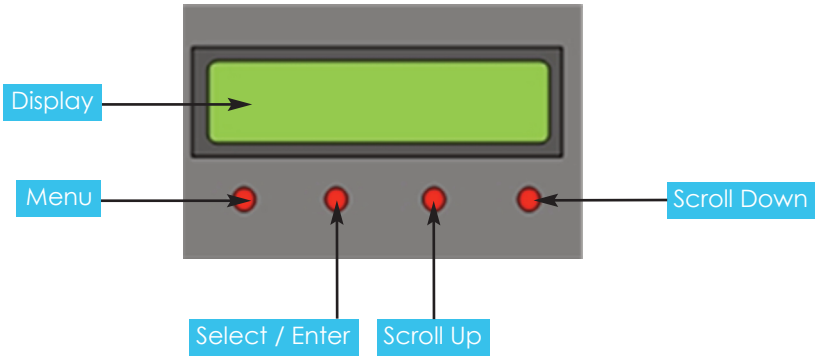


Pin	Description
1	GND / Shield
2	Data - (cold)
3	Data + (hot)
4	Not used
5	Not used

18 Operation

Rear Display & Controls

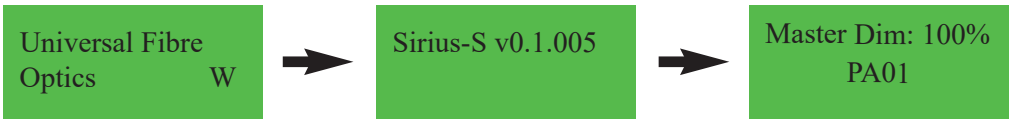
Operation of the Sirius-S models is carried out via the rear display and associated push button controls as detailed below.



All Sirius-S models can be manually controlled using these controls. This is detailed in the following section.

All Models - Start Up

On power up the display will momentarily display "Universal Fibre Optics" with the current model version letter, then the firmware version before displaying the current status of the unit.



IMPORTANT NOTE: Once programmed the luminaire will always revert to the programmed settings when power is recycled. However, if manual RESET is selected the luminaire will revert to factory default settings as detailed below:

White Light - Standard & Emergency Models:
Dimming: 100% / DMX Address 001 / Control Mode: Master

Decorative Models:
Dimming: 100% / DMX Address 001 / Control Mode: Master

White Light Models - Selectable Functions

See the following pages for more information on these functions.

Model	Version	Main Menu	Sub Menu	Description	Instructions
Standard White Light	W	DMX Address	None	Sets DMX Address	Use + & - buttons to display chosen address. Press enter to select
Standard White Light	W	Control Mode	Master	Allows manual control of illuminator	Press enter button to select
Standard White Light	W	Control Mode	DMX	Allows DMX control of illuminator	Press enter button to select
Standard White Light	W	Control Mode	0-10V	Allows 0-10V control of dimming	Press enter button to select
Standard White Light	W	Control Mode	1-10V	Allows 1-10V control of dimming	Press enter button to select
Standard White Light	W	Dim Level	None	If set to Master, allows manual dimming of light output	Use + & - buttons to display chosen light output. Enter to select
Standard White Light	W	Reset Options	None	When set to Master, allows unit to be manually reset	Use + & - buttons to display YES or NO. Press enter to select
Emergency White Light	E	Control Mode	Master	Allows manual control of illuminator	Press enter button to select
Emergency White Light	E	Control Mode	0-10V	Allows 010V control of dimming (to emergency values)	Press enter button to select
Emergency White Light	E	Dim Level	None	If set to Master, allows manual dimming of light output	Use + & - buttons to display chosen light output. Press enter button to select

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Decorative Models - Selectable Functions

See the following pages for more information on these functions.

Model	Version	Main Menu	Sub Menu	Description	Instructions
Decorative Twinkle Wheel	T	DMX Address	None	Sets DMX address	Use + & buttons to display chosen address. Press enter to select
Decorative Twinkle Wheel	T	Control Mode	Master	Allows manual control of illuminator	Press enter to select
Decorative Twinkle Wheel	T	Control Mode	DMX	Allows DMX control of illuminator	Press enter to select
Decorative Twinkle Wheel	T	Control Mode	0-10V	Allows 0-10V control of dimming & decorative wheel	Press enter to select
Decorative Twinkle Wheel	T	Dim Level	None	If set to Master, allows manual dimming of light output	Use + & buttons to display chosen light output. Enter to select
Decorative Twinkle Wheel	T	Twinkle Speed	None	If set to Master, allows manual control of wheel speed	Use + & buttons to display chosen speed. Press enter to select
Decorative Twinkle Wheel	T	Reset Options	None	When set to Master, allows unit to be manually reset	Use + & buttons to display YES or NO. Press enter to select
Decorative Color Wheel	C	DMX Address	None	Sets DMX address	Use + & buttons to display chosen address. Press enter to select
Decorative Color Wheel	C	Control Mode	Master	When set to Master, allows manual control of illuminator	Press enter to select
Decorative Color Wheel	C	Control Mode	DMX	Allows DMX control of illuminator	Press enter to select

Decorative Models - Selectable Functions

See the following pages for more information on these functions.

Model	Version	Main Menu	Sub Menu	Description	Instructions
Decorative Color Wheel	C	Control Mode	0-10V	Allows 010V control of dimming & decorative wheel	Press enter to select
Decorative Color Wheel	C	Dim Level	None	If set to Master, allows manual dimming of light output	Use + & buttons to display chosen light output. Enter to select
Decorative Color Wheel	C	Color Speed	None	If set to Master, allows manual control of wheel speed	Use + & buttons to display chosen speed. Press enter to select
Decorative Color Wheel	C	Reset Options	None	When set to Master, allows unit to be manually reset	Use + & buttons to display YES or NO. Press enter to select
Decorative Color Wheel	C	Select Program	PA01 to Pa10	If set to Master, allows 10 color segments to be individually snap displayed	Use + & buttons to display chosen color. Press enter to select
Decorative Color Wheel	C	Select Program	PB01 to PB09	If set to Master, allows preprogrammed color sequences to be displayed	Use + & buttons to display chosen color. Press enter to select
Decorative Color Wheel	C	Select Program	SA01 to SA09	If set to Master, allows preprogrammed snap to color sequences to be displayed	Use + & buttons to display chosen color. Press enter to select
Decorative Color Wheel	C	Select Program	CW01 to CW02	When set to Master, allows continuous rotation of color wheel CW or CCW	Use + & buttons to display chosen color. Press enter to select
Decorative Color Wheel	C	Program Steptime	None	If set to Master, allows adjustment of time in increments for step to hold the color in between sequences	Use + & buttons to display chosen time. Press enter to select

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Manual Operation

All Sirius-S models in the range can be manually controlled in a variety of ways as detailed in the Selectable Function tables in the preceding section and in the following sections.

Note:
- For all manual operation modes the illuminator must be programmed to Master.
- Refer to Selectable Function tables for Menu and Sub Menu availability for each model.

MENU > Control Mode > SCROLL UP/DOWN > Master > SELECT

Standard & Emergency White Light Dimming

With the illuminator in Master Control Mode, the light output can be dimmed using rear panel controls from 0% (no light output) to 100% (maximum light output)

MENU > Master Dim: 90% > SCROLL UP/DOWN TO ADJUST LIGHT OUTPUT

Decorative Twinkle or Color Dimming & Wheel Control

Dimming:
With the illuminator in Master Control Mode, the light output can be dimmed using rear panel controls from 0% (no light output) to 100% (maximum light output)

MENU > Master Dim: 90% > SCROLL UP/DOWN TO ADJUST LIGHT OUTPUT

Twinkle Wheel Control:
With the illuminator in Master Control Mode, the decorative twinkle wheel can be controlled via the 'Twinkle Speed' menu as follows:

MENU > Twinkle Speed > SCROLL UP/DOWN TO ADJUST SPEED

STOP	0.1 RPM	0.2 RPM	0.3 RPM	0.4 RPM	0.5 RPM	0.6 RPM	0.8 RPM	1 RPM	2 RPM	3 RPM

Manual Operation

Color Wheel Control:
With the illuminator in Master Control Mode, the decorative wheel can be controlled via the main and sub menus. Sub menu options are as follows:

Menu	Sub Menu	Description
Select Program	PA01	Color wheel snap to color 1 (Clear/White)
Select Program	PA02	Color wheel snap to color 2 (Yellow)
Select Program	PA03	Color wheel snap to color 3 (Green)
Select Program	PA04	Color wheel snap to color 4 (Orange)
Select Program	PA05	Color wheel snap to color 5 (Magenta)
Select Program	PA06	Color wheel snap to color 6 (blue)
Select Program	PB01	Fade change (0-5)
Select Program	PB02	Fade change (1-5)
Select Program	PB03	Fade change (2-5)
Select Program	PB04	Fade change (3-5)
Select Program	PB05	Fade change (4-5)
Select Program	SA01	Snap change (0-5)
Select Program	SA02	Snap change (2-6)
Select Program	SA03	Snap change (3-6)
Select Program	SA04	Snap change (4-6)
Select Program	SA05	Snap change (5-6)
Select Program	CW01	Color wheel rotate continuously clockwise
Select Program	CW02	Color wheel rotate continuously anticlockwise

24 Operation

Manual Operation

Program Steptime Mode

Manual control of the Color Wheel. Color Wheel Steptime via display control .

MENU > Program Steptime > SCROLL UP/DOWN TO ADJUST TIME

1 sec	5 sec	10 sec	20 sec	30 sec	1 min	2 min	5 min	10 min	30 min	60 min

Color Speed Mode

Color change speed controlled via 'Color Speed' menu.

MENU > Color Speed > SCROLL UP/DOWN TO ADJUST SPEED

STOP	0.1 RPM	0.2 RPM	0.3 RPM	0.4 RPM	0.5 RPM	0.6 RPM	0.8 RPM	1 RPM	2 RPM	3 RPM

DMX Operation

All Sirius-S models in the range can be DMX controlled as detailed in the Selectable Function tables in the preceding section and in the following sections.

White light models are 2 channel units - first channel controls the dimming function and the second turns the LED and fans on and off.

Decorative models are 4 channel units and dimming, color wheel, twinkle wheel and LED & fans on and off.

Decorative versions can be supplied with or without a sensor. In twinkle versions with a sensor, non-twinkle output is avoided as the wheel rotates back and forth, avoiding the fully cut-out section. In color change versions with a sensor, the wheel can be stopped on individual colors.

Note:
• For all DMX operation modes the illuminator DMX address must be set using the DMX Address menu and the illuminator must be set to DMX in the Control Mode sub menu.

MENU > Control Mode > SCROLL UP/DOWN > DMX > SELECT

MENU > DMX Address > SCROLL UP/DOWN TO SELECT ADDRESS

DMX Operation (2 Channel White Light Models)

Chan. No.	Function	Model	Address Value	Effect
01	LED Dimming	White Light	0-255	0-100% dimming
02	Normal - LED & Fan On	White Light	0-119	LED illuminated & fan running
02	Initialise / Reset	White Light	128-200	Initialise & Reset if held for 10 seconds
02	LED & Fan off	White Light	201-255	LED & Fan off after 30 second delay

DMX Operation (4 Channel Decorative Models)

Chan. No.	Function	Model	Address Value	Effect
01	LED Dimming	All	0-255	0-100% dimming
02	Color wheel variable color 1	Color wheel	0-10	Snap to color 1 (white / clear)
02	Color wheel variable color 2	Color wheel	11-20	Snap to color 2 (yellow)
02	Color wheel variable color 3	Color wheel	21-30	Snap to color 3 (green)
02	Color wheel variable color 4	Color wheel	31-40	Snap to color 4 (orange)
02	Color wheel variable color 5	Color wheel	41-50	Snap to color 5 (magenta)
02	Color wheel variable color 6	Color wheel	51-70	Snap to color 6 (blue)
02	Color wheel variable color 5	Color wheel	71-80	Snap to color 5 (magenta)
02	Color wheel variable color 4	Color wheel	81-90	Snap to color 4 (orange)
02	Color wheel variable color 3	Color wheel	91-100	Snap to color 3 (green)
02	Color wheel variable color 2	Color wheel	101-110	Snap to color 2 (yellow)
02	Color wheel variable color 1	Color wheel	111-127	Snap to color 1 (white / clear)
02	Color wheel c/w rotation	Color wheel	128-188	Fast to slow rotation clockwise
02	Color wheel a/c/w rotation	Color wheel	189-255	Slow to fast rotation anti-clockwise
03	Twinkle wheel home	Twinkle wheel	0-5	Returns at full speed to the start position
03	Twinkle speed control	Twinkle wheel	6-255	Controls speed from slow to fast. Reverses direction to avoid slot
03	Twinkle wheel stop (non sensor models only)	Twinkle wheel N/S	0-1	Stop
03	Twinkle wheel speed control cw (non sensor models only)	Twinkle wheel N/S	2-127	CW rotation fast to slow
03	Twinkle wheel speed control acw (non sensor models only)	Twinkle wheel N/S	128-255	ACW rotation slow to fast
04	Normal - LED & Fan On	All	0-119	LED illuminated & fan running
04	Wheel to home position	All Decorative	>=120	Wheel returns to home position
04	Initialise / Reset	All	128-200	Initialise & Reset if held for 10 seconds
04	LED & Fan off	All	201-255	LED & Fan off after 30 second delay

0-10V Operation

Chan. No.	Function	Model	0-10V Value	Effect
1	LED Dimming	All	0V	No Light output
2	LED Dimming	All	0.5 - 10V	0-100% dimming
2	Snap to color 1 (white / clear)	Color Wheel	0V	Snap to color 1 (white / clear)
2	Snap to color 2 (yellow)	Color Wheel	0.3V	Snap to color 2 (yellow)
2	Snap to color 3 (green)	Color Wheel	0.8V	Snap to color 3 (green)
2	Snap to color 4 (orange)	Color Wheel	1.2V	Snap to color 4 (orange)
2	Snap to color 5 (magenta)	Color Wheel	1.6V	Snap to color 5 (magenta)
2	Snap to color 6 (blue)	Color Wheel	2.0V	Snap to color 6 (blue)
2	Snap to color 5 (magenta)	Color Wheel	2.8V	Snap to color 5 (magenta)
2	Snap to color 4 (orange)	Color Wheel	3.2V	Snap to color 4 (orange)
2	Snap to color 3 (green)	Color Wheel	3.6V	Snap to color 3 (green)
2	Snap to color 2 (yellow)	Color Wheel	4.0V	Snap to color 2 (yellow)
2	Snap to color 1 (white / clear)	Color Wheel	4.4V	Snap to color 1 (white / clear)
2	Color wheel c/w rotation	Color Wheel	5-7.3V	Fast to slow rotation clockwise
2	Color wheel a/c/w rotation	Color Wheel	7.4V-10V	Slow to fast rotation anti-clockwise

1-10V Operation

Chan. No.	Function	Model	0-10V Value	Effect
1	LED Dimming	White Light	1-10V	10% to 100% dimming

28 Basic Troubleshooting

All Models

Fault	Possible Cause	Solution
Unit is dead - no light output Mains power indicator & LCD display is not illuminated	Mains supply off	Check supply & reinstate
	Loose connector(s)	Check connections
	Plug fuse blown (UK)	Check & replace if needed
	IEC blown fuse	Check & replace if needed
	Mains supply cable faulty	Acquire replacement cable

Fault	Possible Cause	Solution
Unit is dead - no light output Mains power indicator & LCD display are lit, fans are running	Unit in Master mode and dimming at 0%	Select dim level option and manually increase level
	Unit in 0-10V mode but no control voltage	Check 0-10V control voltage and reinstate
	Unit in DMX mode but channel 1 value at 0	Increase channel 1 DMX controller value
	Failed array or internal component	Contact UFO

Problem	Possible Cause	Solution
Unit is dead - no light output Mains power indicator & LCD display are lit, fans not running	Unit in DMX control mode but channel 5 value set >200	Reduce channel 5 DMX controller value to 0
	Failed internal component	Contact UFO

Remote Manual Models

Problem	Possible Cause	Solution
No control over dimming no light output OR full light output Mains power indicator & LCD are lit, fans are running	Unit in 010V control mode but fault on remote cabling, reverse polarity or open circuit	Check remote cabling and repair/replace

Manual Control Models

Problem	Possible Cause	Solution
No manual control over dimming	Unit not in Master control mode	Set to Master in the control mode submenu
	Failed internal component	Contact UFO

DMX Control Models

Problem	Possible Cause	Solution
No DMX control over dimming & DMX functions. 'no DMX' displayed	Indicates unit is not receiving a DMX signal from controller or Master Sirius-S	Check DMX controller or Master Sirius-S settings
	Faulty DMX cable	Check DMX cabling & repair/replace

Problem	Possible Cause	Solution
No DMX control over dimming & functions. No DMX address displayed	Unit not in DMX control mode	Set to DMX in the Control Mode sub menu

Problem	Possible Cause	Solution
No DMX control over dimming & functions. DMX address displayed	DMX address not correctly set	Set correct DMX address

Problem	Possible Cause	Solution
Random/wrong function; DMX control over dimming & functions. DMX address displayed	Incorrect DMX address set, probably not enough channel space left between addresses	Set correct DMX address & leave adequate space for 5 channels of DMX in between

30 Basic Troubleshooting

0-10V Control Models

Problem	Possible Cause	Solution
No control over dimming. Unit is dead no light output; mains power indicator & LCD display are lit, fans are running	Unit in 0-10V control mode but no 0-10V control voltage present	Check 0-10V control voltage at controller & reinstate
	Fault on 0-10V cabling, reverse polarity or open circuit	Check 0-10V cabling & repair/replace

1-10V Control Models

Problem	Possible Cause	Solution
Dim level displayed at 5%, Remote dimmer control has no effect	Current sink dimmer connected but wrong polarity	Check & correct polarity in all remote dimming connections

Problem	Possible Cause	Solution
Dim level displayed at max. Remote dimmer control has no effect	Open circuit on current sink dimmer connection/cabling	Check remote dimmer cabling & repair/ replace
	Incompatible current source dimmer	Disconnect remote dimmer & check output with DVM turning dimmer from min. to max. If there is varying 010V voltage, change dimmer for a current sink type

Problem	Possible Cause	Solution
Dim level changes with remote dimming, light out put range inaccurate or reduced	Incompatible current sink dimmer	Contact UFO

If you are unable to sort or diagnose an issue with the illuminator please contact your local UFO technical department using the contact details on the back page of this guide.

Error Messages

The Sirius-S is capable of displaying basic error messages on its screen. These can be used to aid in troubleshooting some problems.

Error	Message	Outcome
Twinkle wheel not finding magnet sensor	TWINKLE WHEEL ERROR	Twinkle wheel cycles continuously at lowest speed Auto reset when magnet sensor is detected
Color Wheel not finding magnet sensor	COLOUR WHEEL ERROR	Color wheel cycles continuously at lowest speed Auto reset when magnet sensor is detected
Array overheating	ARRAY TEMP ERROR	Keep LED on but reduce output from LED until temperature back in range. If temperature doesn't reduce in 1 minute. Shut down array. Keep fan running. Manual reset.
Fan 1 or 2 stops running	FAN ERROR	Shut array and fans down. Manual reset.

32 Maintenance

Maintenance Procedures

To ensure a long working life and the safe, reliable operation of the illuminator, 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 illuminator it should be disconnected from the power supply and allowed to cool down.

- The illuminator 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 illuminator 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 illuminator 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 illuminator 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 on the next page, 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 illuminator may become hot - keep away from all combustible materials and DO NOT locate this light source within 200mm (8") of any flammable surface.

- The illuminator must not be run without the fiber optic harness fitted.

Date	Maintenance Undertaken

Technical Specifications

Port Connector Size	30mm diameter
Fiber Type	Glass / PMMA
Material/Finish	Aluminium, grey powdercoat RAL7024
Mains Supply Voltage	100 - 305VAC
Mains Running Current	0.4A @ 240VAC
Mains Voltage VA	92VA
LED Type	White Light, Bridgelux V18
LED Power	75W
LED Life (L70, B10)	50,000 hours (typical)
Hi CRI LED Array (>90) **Color Temperature & Lumen Output Options**	2200K @ 8211 lm 2700K @ 12113 lm 3000K @ 12361 lm 4000K @ 12608 lm
Control Functionality	0-10V, 1-10V, DMX, Manual Control
DMX	Addressable to 512. 2 channels for white light models & 4 for decorative
Effect wheel options & functionality	Color or twinkle wheel on decorative models only
Operating Environment	Indoor / Dry
Ambient Temperatures	-10°C - +45° C
Dimensions	White Light: 280mm x 190mm x 118mm Decorative: 322mm x 200mm x 118mm

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