

# SFC2

## **Features of the SFC2**

- Full control over colour and brightness
- Controls up to 32 Spectres or Mirages
- Four channel chase
- Four channel cross-fade chase
- Random colour change to sound
- Needs no separate power supply
- Built in microphone for sound activation

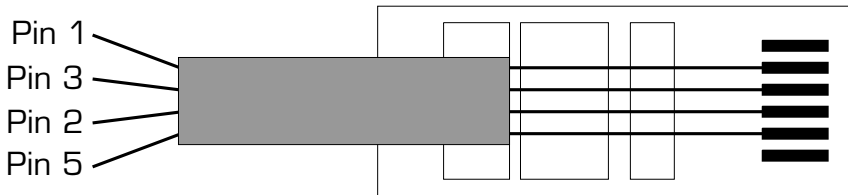
## Installation

**To connect to a Spectre any product fitted with an RJ11 connector.** Use an RJ11-RJ11 straight wired lead, such as P250B or P250D, which is generally referred to as a "line cord". Modem leads are also RJ11 to RJ11, but are generally cross wired, and some only contain two cores.

Ensure that the plug is pushed into the socket until a "click" is heard.

Power to run the remote controller is supplied by the Spectre, so no power supply connection is required.

**To connect to an early Spectre:** (The Spectre must be fitted with 5-pin XLR sockets) Use a RJ11 to 5-pin XLR lead wired as shown.

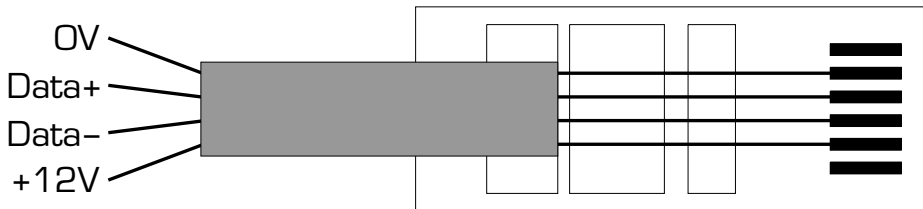


The plug is shown with the clip underneath. This lead can be made by removing one plug from a RJ11-RJ11 lead such as P250B or P250D and replacing it with a 5-pin XLR connector.

If operating more than one Spectre, connect the first Spectre to the second using a 5-pin XLR DMX lead.

**To connect to a Mirage:** Use a RJ11 lead (such as P250B or P250D), and remove the plug from one end. Connect to the DMX terminal in the Mirage as shown below.

The plug is shown with the clip underneath.



## Setting up

**Controlling a Spectre:**

The SFC2 produces four channel chasing patterns, in the same way as a four channel lighting controller.

- Set both the MODE switches OFF.

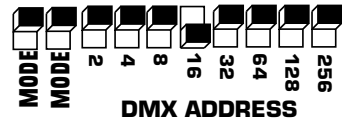


- Set the DIL switches on all Spectres that are required to operate as channel 1 to DMX address 1 (all switches off)

- Set the DIL switches on all Spectres that are required to operate as channel 2 to DMX address 9 (switch 8 on)



- Set the DIL switches on all Spectres that are required to operate as channel 3 to DMX address 17 (switch 16 on)



- Set the DIL switches on all Spectres that are required to operate as channel 4 to DMX address 25 (switches 16 and 8 on)



If you have a set of four Spectres, set one to each channel, to obtain the best effect.

If you have fewer than four Spectres, set them all to channel 1, and do not use the "chase" function.

**Controlling a Mirage.**

- Set the MODE switch OFF



• Set the DIL switches on all Mirages that are required to operate as channel 1 to DMX address 1 (all switches off)

- Set the DIL switches on all



Mirages that are required to operate as channel 2 to DMX address 9 (switch 8 on)

- Set the DIL switches on all



Spectres that are required to operate as channel 3 to DMX address 17 (switch 16 on)

- Set the DIL switches on all



Mirages that are required to operate as channel 4 to DMX address 25 (switches 16 and 8 on)

If you have a multiples of four Mirages, set one to each channel, to obtain the best effect.

If you have fewer than four Mirages, set them all to channel 1, and do not use the "chase" function.

**Controlling other products:**

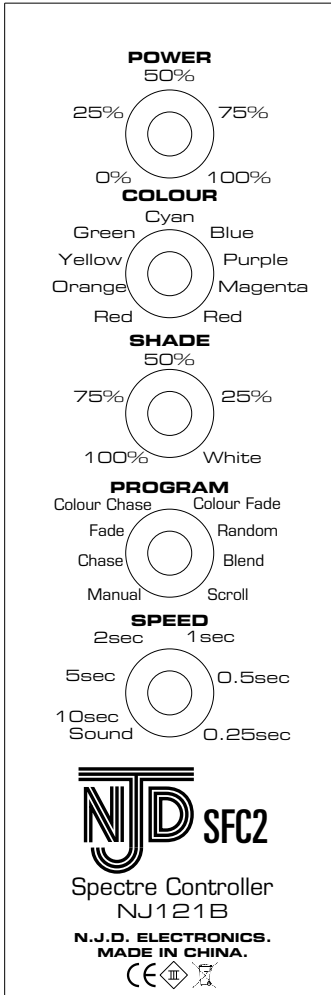
Refer to the instructions supplied with the product as to whether it is compatible with the SFC2 and how it operates.

**Operation**

The **POWER** control operates at all times regardless of the setting of any other controls. At 0% all lamps will be off. At 100% the power supplied to the lamps will be 500W. The effects on lamp life and brightness are shown in the table on the next page.

During chases, the **POWER** control sets the brightness of the channels that are switched on by the chaser, during cross-fades, it sets the maximum brightness achieved during the fade.

Two controls operate the **COLOUR** selection labelled COLOUR and SHADE. The upper control sets the base colour (known technically as the "hue" and the lower control sets the shade of



the colour set on the upper control (known technically as the "saturation")

For example: if the upper control is set to "RED", then by varying the saturation control, every shade of red can be selected from deep red with the saturation control set to 100% all the way through pink and all possible pastel shades of red to white when the control is set to 0%.

Two controls operate the **PROGRAM** selection. The upper control selects the program, and the lower control selects the speed.

At the furthest anticlockwise position (of the upper control) labelled "MANUAL" all lanterns will be illuminated at the level set on the **POWER** control, and the colour set on the COLOUR and SHADE controls

The **CHASE** position selects a four channel chase program with one lantern on at a time.

The next position "FADE" select the same chase pattern but this time operated in "soft-fade". Each lantern fades up from zero to the brightness set on the **POWER** control, and back down to zero.

The COLOUR CHASE position is the same as the CHASE position except that the COLOUR control is overridden, and a random colour is selected, which changes every sixteen steps of the Chaser.

The COLOUR FADE position is the same as the FADE position, except that the COLOUR control is overridden, and a random colour is selected, which changes every sixteen steps of the Chaser.

The RANDOM position overrides the COLOUR control and

selects a colour which changes at random, the same colour is selected on all four channels.

BLEND selects a colour at random, and blends from the present colour to the new colour, and then pauses on the new colour.


The lower of the two **PROGRAM** controls sets the chase speed, the times labelled are the time taken for each chase step.

If the PROGRAM speed control is turned fully anticlockwise, to the position labelled SOUND, the chaser will operate to the bass beat of the music, changing to the next step in the pattern on the beat.

The final position (SCROLL) selects a slow colour scroll, which changes gradually from red through orange, yellow, green, cyan, blue, purple, magenta and back to red.

The soft-fade programs (FADE, COLOUR FADE and BLEND) are not available sound-activated. If SOUND is chosen when a soft-fade program is selected, then the SFC2 will produce normal ON-OFF chase patterns with no cross fading.

### Brightness & Lamp life.

Setting	Power	Brightness	Lamp Life	
				
0%	0W	0%	*	*
25%	62.5W	1.5%	*	*
50%	150W	12.5%	204000	*
75%	320W	42%	1500	11000
100%	500W	100%	50	350

\*At power settings this low, the lamp life will be determined by other factors than the power consumed by the lamp, such as switching on and off repeatedly, or mechanical damage. The settings shown above have been chosen after extensive research and testing to produce a control that appears linear to the eye.

## Fault Finding

- |                |  |
|----------------|--|
| No operation:  | <ul style="list-style-type: none"><li>• Plugs not fully pushed into sockets</li><li>• DIL switches set to wrong address, must be 1, 9, 17 or 25.</li><li>• Power control set to ZERO.</li><li>• Wrong power supply - must be connected to a 12V DC supply.</li></ul> |
| No soft fade:  | <ul style="list-style-type: none"><li>• SPEED control set to SOUND - soft fade only operates at fixed speeds</li></ul>   |
| No sound chase | <ul style="list-style-type: none"><li>• Music contains no bass beat, or is not loud enough</li></ul>   |

## Repairs and spare parts.

If you require spare parts or to return the unit for repair, please contact. **technical@njd.co.uk**

## Technical Specification.

Dimensions:	182mm x 65mm x 37mm
Weight:	0.3kg
Power Supply:	12V DC @ 15mA
Output:	DMX512 (conforms to electrical and data specifications)
Connections:	RJ11

## Standards

The SFC2 is a CLASS III product (Protection by Safety Extra Low Voltage) and is exempt from electrical safety standards, and complies with Electromagnetic Compatibility Standard EN55103.

## *Guarantee*

**This product is guaranteed for a period of 12 months against faulty components or manufacture from the date of purchase. Upon proof of purchase, NJD shall, at its own option, repair or replace the defective item at no cost to the purchaser.**

**This guarantee is contingent upon the proper use of the product in the application for which it is intended and does not cover products that have been modified, subjected to unusual physical conditions, or electrical conditions outside its specification, or damaged in any way.**

**This guarantee is limited to the product only and does not cover carriage costs, installation costs or travel expenses. Your statutory rights are not affected.**

**In the event of any problems with this product contact the retailer from which it was purchased for technical assistance, or e-mail [technical@njd.co.uk](mailto:technical@njd.co.uk)**

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