

# Fibre Optic with 50w Lightsource User Instructions

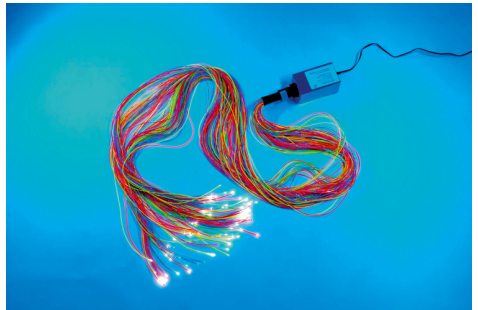
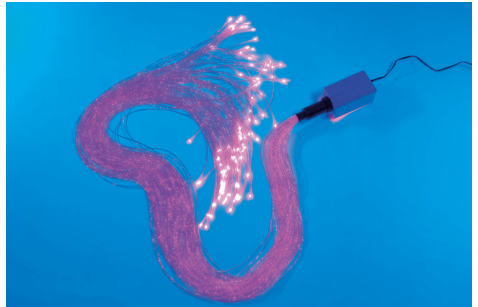
**Fibre Optic User Information  
October 2007**

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## **Introduction to Fibre Optics**

### **What are Fibre Optics?**

Fibre optics provide a stunning, visual and tactile experience. They are safe to stroke, hold, wrap around the body and lie among. The constantly changing colours along the length of the fibres focuses attention whilst having a calming effect.

All fibre optics require a lightsource, these are provided as packages of fibre optics with the appropriate lightsource or can be supplied as individual units.

## Why is there a need for this type of product?

Our senses tell us about the world in which we exist. Our sense of smell, taste, touch, sight and sound provide the foundation for our understanding and actions. It is only when one or a number of these senses are impaired that parts of the world are less accessible and understanding is diminished.

Multi sensory environments support interaction, discovery and communication encouraging stimulation of the senses vital for those with some sensory impairment and for children at the very beginning of their learning and development.

These environments facilitate faster learning and development through increased awareness of the surroundings and stimulation of the senses - sight, sound, touch and smell.

Such environments are challenging and stimulating for both children and adults, in particular for those with special needs. They provide interactivity for those developing cognitive and physical skills and encourage communication within a unique learning environment.

Multi sensory environments can provide a calming and relaxed atmosphere where professionals are able to observe and

assess clients and monitor and detect changes in ability or just simply promote relaxation for the agitated or stressed.

Multi Sensory environments have now become commonplace in a variety of learning arenas from nurseries and playgroups through to special schools, family centres and nursing homes as a means of education, relaxation and play.

At the heart of any successful environment is its appropriateness to the users.

Whether the environment is a safe soft play area for a group of toddlers at a nursery school where they can explore and develop social skills or a calm, non-threatening environment within a nursing home to promote relaxation, it is the understanding of the users needs and appropriate application of the underlying principles of sensory to ensure the best possible environment.

Fibre optics are intrinsic to many sensory environments providing a host of benefits:

- Relaxing and calming effect
- Encouraging movement—to walk, crawl, explore amongst
- Visual tracking skills
- Tactile work
- Colour matching
- Directional skills
- Fine motor skills
- Encourages communication



## Who should consider using Fibre Optics?

More or less any individual can benefit from the properties that a Multi Sensory environment can provide and thus one of the key components, Fibre Optics.

From active and demanding toddlers at a nursery or play group where a soft play area and a selection of portable sensory equipment provide fun, exploration and interaction; to adults and children with learning difficulties where the integration of a switching system can help to develop co-ordination and motor skills; through to the development of an area for relaxation for the elderly or maybe pre and post operative care areas in hospitals for adults and children.

It must however be noted that for some individuals Multi Sensory may not be appropriate as it can confuse and frighten that in turn can lead to aggression, agitation and mistrust. It is important to minimise the propensity for this to occur by creating a non-threatening environment but also to monitor closely the reaction of individuals, keep records and follow a good practice when using any type of environment.

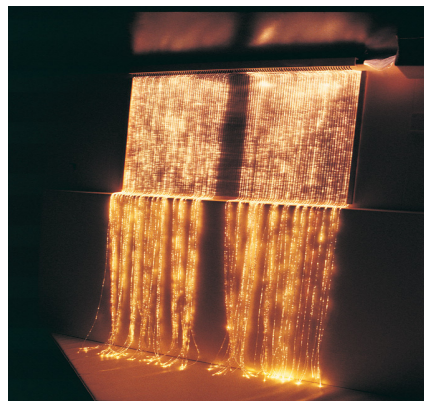
## Fibre Optic Product Information

### Range

- Fibre Optic Islands
- Glow Walls
- Sideglows
- Fibre Optic Curtains
- Star Carpets, Ceilings, Cloths and Boxes
- Ultra Violet Fibre Optics

### Accessories

- Lightsource
- Lightsource covers
- Lamps



## Guidelines for Best Practice

To ensure good practice when considering purchasing Fibre Optics and effective use post purchase we advise that the following guidelines are considered:

1. Seek advice and input from a qualified therapist/professional and/or SensoryPlus/Kirton representative.
2. If unsure when ordering any Fibre Optics and any accessories contact your SensoryPlus/Kirton representative or our Customer Services Team on **Freephone 0800 212709** or **+44 (0) 1440 705352** to discuss further.
3. It is recommended that following receipt of the Fibre Optics all staff members that will be working with them should be fully trained.



## The User Instructions

The purpose of the following user instructions is to provide a guide on how to utilise and maintain the Fibre Optics.

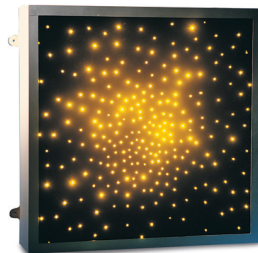
These instructions should be read by all those involved with the supervision of the user and/or the care of the product before use.

The Fibre Optics **must** be set up in terms of positioning and application of its accessories to ensure safe and problem-free use.

Please retain these instructions for future reference.

## Questions and Concerns

Should you experience any difficulties or have any concerns regarding the initial purchase or subsequently adjusting the Fibre Optics or have any concerns regarding its use or operation then immediately contact either your SensoryPlus/Kirton representative or our Customer Services Team on **Freephone 0800 212709** or **+44 (0) 1440 705352**, they will be delighted to help you.



## **Delivery**

1. The Lightsources are delivered in a damage proof box.
2. When unpacking please make sure the Lightsource is not damaged.
3. If the unit is damaged please report it to **SensoryPlus** immediately on our **Freephone 0800 212709 or +44 (0) 1440 705352**.
4. The Lightsource should already be labelled with SensoryPlus's name and telephone number for future reference.
5. Please retain all packaging as you may need to send the Lightsource back at a later date for servicing.
6. Ensure the plug on the Lightsource mains lead has a 5amp fuse fitted.
7. The Fibre Optics are delivered coiled and secured – remove the tape and the plastic end cap before use.

## **General Operation of Fibre**

### **Optics and Lightsource**

To operate the Fibre Optics you will need to use a 50w Lightsource.

With Plastic Fibre Optics or a Fibre Optic Star Carpet a 50w Lightsource with heat filter is required.

### **50w Lightsource**

These instructions cover the Schott 50w lightsource only.

## **WARNING: RISK OF FIRE**

Do not use plastic optical fibre harnesses unless a KG1 heat filter is installed.

### **Installing the Lightsource**

#### **Location**

1. Stand the unit on a horizontal surface (unless used for a fibre optic curtain) in a dry, dust free location.
2. The unit is suitable for indoor use only.
3. Ensure the cooling vents are not blocked, e.g. by pushing too close to a wall, etc.
4. Do not expose to water, condensation or excessive dampness.
5. Do not use in hazardous locations.



#### **Power requirements**

1. The unit requires a supply of 220 to 240V 50Hz.
2. An earth (ground) connection must be provided.

#### **Dimming**

1. The unit may be electrically dimmed only if a "Hard fired" dimmer or a "Variac" (variable transformer) is used.
2. Any other type of dimmer will cause damage to the internal transformer.

## Installing the Fibre Optics

(also known as Sideglow, Harness, Curtain et al)

1. Ensure the Lightsource power cord is removed from the power socket and the Lightsource is switched off.
2. Open the lamp access cover by turning screw 90° anticlockwise on the top panel of the Lightsource.
3. A large harness-fixing screw will be visible inside the Lightsource.
4. Loosen the harness-fixing screw until harness can be pushed fully into harness boss at the front of the Lightsource.
5. Secure the Fibre Optic Harness by tightening the harness-fixing screw. Do not over tighten screw.
6. Refit lamp access cover and secure screw by turning 90° clockwise.
7. Reconnect power cord to power socket.

### Operation

1. Switching the ON/OFF switch down will turn the lightsource on.
2. Now you are ready to experience the world of fibre optics.

## Safety Advice:

### Fibre Optic Harness

Fibre optic products should always be used in a supervised environment bearing in mind the following points:

#### Standard Fibre Optics

1. The strands should never be put in the mouth. They are made from glass fibres encased in robust PVC tubes. Biting these could cause the fibres to get in the mouth.
2. Should any of the tails break so the glass fibres become visible please ensure these are repaired immediately.
3. To repair a frayed fibre optic pull the plastic casing so the exposed fibres retreat back into the plastic. Using a lighter or exposed flame melt the end of the plastic and pinch together. Extreme care and caution must be exercised. If in any doubt please contact **Customer Services on Freephone 0800 212709 or Tel: +44 (0)1440 705352.**

#### Plastic Fibre Optics

1. Whilst these strands do not break to reveal glass fibre optics caution should be taken not to put them in mouths in



order to avoid swallowing or choking.

## General Advice

The following handling points will ensure your harness will give you pleasure in the years to come:

1. The harness should not be placed under excessive strain. Please do not allow users to pull the harness.
2. The harness should always be used in areas away from sharp edges.
3. Always keep the harness away from excessive heat sources (i.e. radiators). 75 degrees centigrade is the maximum working temperature recommended by the manufacturer.
4. If there is a risk of accidental ingestion then please do not use fibre optic products. Fibre optics must not be placed in the mouth.
5. If through accidental exposure, broken glass fibres come into contact with and penetrate the skin, this may cause short-term skin irritation. There is no long-term effect. A practical, safe and easy method of removal is to apply self adhesive tape to the affected area then gently peel it off, repeating if necessary using fresh tape (sellotape is ideal). In the unlikely event that glass fibres enter the eye, immediate medical help should be sought. Fibre optics are safe when correctly used and supervised.
6. The light source, which houses the


harness, should, where possible, be mounted as far away from the user as possible.

7. Never leave the user unsupervised whilst using the harness.
8. SensoryPlus cannot accept any liability for injury or damage caused by the abuse or misuse of these products.

## Care and Maintenance:

### 50w Lightsource

#### Lamp Maintenance

1. When replacing the lamp in the Lightsource please allow 10 minutes cooling time between the Lightsource being switched on and it being turned off. 
2. Fitting a lamp other than the type originally supplied with the lightsource may:
  - Make this unit unsafe.
  - Possibly damage the fibre optic assembly due to excess heat.
  - Reduce the overall performance.
  - Invalidate the warranty with the manufacturer or the authorised dealer.

## Lamp replacement

### Replacement lamp: Use only 12V 50w EXN

1. Remove the Lightsource power cord from the power socket.
2. Open the lamp access cover on the top of the Lightsource by turning the screw 90° anti-clockwise.
3. Pull the lamp forward until spring clips release. Discard spent lamp in accordance with local environmental regulations.
4. Push the new lamp into position. Check both spring clips fit into notches on lamp. Check the lamp is facing directly forward.
5. Refit the lamp access cover and secure the screw by turning 90° clockwise.
6. Reconnect power cord to power socket.



## Colour wheel replacement

1. Remove the Lightsource power cord from the power socket
2. Open the lamp access cover on the top of the Lightsource by turning the screw 90° anti-clockwise.
3. If fibre optic harness is connected, loosen screw and remove the harness.
4. Loosen the colour wheel screw and slide the wheel off shaft.
5. When installing a colour wheel, position the wheel such that the end of the motor shaft is level with the face of the colour wheel. Tighten the screw.

6. If removed, refit the fibre optic harness and tighten screw.
7. Refit the lamp access cover and secure the screw by turning 90° clockwise.
8. Reconnect power cord to power socket.

## Thermal safety

- For safety two thermal cut outs are provided.
- The main thermal cut-out is an automatic re-set. An over-heating situation will cause the lamp and motor to shut down.

### To reset the thermal cut-out

- Disconnect from the power supply.
- Allow the unit to cool for 10 minutes.
- Reconnect to the power supply and switch on.
- The unit should light up and start to function normally.

## Care and Maintenance:

### 50w Lightsource

1. To keep the harness clean, wash in a solution of mild detergent and antiseptic with warm water.
2. Use a soft cloth to wipe the strands.
3. Do not immerse in water.
4. Dry with suitable soft clean cloth.

Always remove the harness from the lightsource and turn off the electricity supply before cleaning.

## Helpline

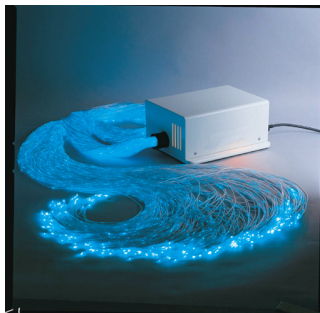
Should you have any concerns either pre or post purchase of your Fibre Optics contact our Customer Services Team on **Freephone 0800 212709** or from outside the UK **+44 (0) 1440 705352** to discuss further.

Alternatively, if you purchased your Fibre Optics from a Kirton/**SensoryPlus** distributor in the first instance please contact your point of reference there.

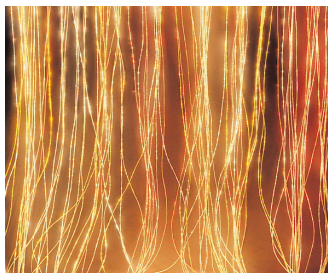
If your call concerns a specific product please have ready your sales order number before you telephone, it helps us identify your details and deal with your enquiry efficiently.



Large Corner Fibre  
Optic Island



Interactive Fibre  
Optic Sideglow



Fibre Optic Curtain

## Potential Risks, Cautions and Warnings

When using the Fibre Optics and Lightsources basic safety precautions should be followed including:

- 1 Read and understand all instructions before using the equipment.
- 2 Close supervision is necessary when any appliance is used by, or near, children. Do not leave appliance unattended while in use.
- 3 Care must be taken, as burns can occur from touching hot parts.
- 4 The appliance switch is provided with the symbol 'O' indicating 'OFF' and 'I' indicating 'ON'.
- 5 Do not operate appliance with a damaged cord, or if the appliance has been dropped, or damaged, until it has been examined by a qualified service person.
- 6 Position the cord so that it will not be tripped over, pulled, or come into contact with hot surfaces.
- 7 If an extension cord is necessary, a cord with a current rating at least equal to that of the appliance should be used.
- 8 Always unplug appliance from electrical outlet before cleaning and servicing and when not in use. Never yank the cord to pull plug from outlet. Grasp plug and pull to disconnect
- 9 Let appliance cool completely before packing. Loop cord loosely around appliance when storing.
- 10 To reduce risk of electrical shock, do not immerse product in water or other liquids.



- 11 To reduce the risk of electrical shock, do not dismantle this appliance, but take it to a qualified repairer when servicing is required. Incorrect reassembly can cause electrical shock when the product is used subsequently.
- 12 Connect this appliance to a grounded outlet.
- 13 Disconnect this unit from its source of supply before replacing the lamp or colour wheel.
- 14 The axis across the width of the lightsource should remain horizontal unless being used with a Fibre Optic Curtain.
- 15 Do not attempt lamp replacement while unit is still hot as there is a risk of burns from the lamp.
- 16 Qualified service personnel who should work under the authority of the manufacturers recognised agent must carry out the procedures described in the operating instructions.
- 17 After any maintenance or cleaning all parts must be dry before refitting to the Lightsource.







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