



247750 Rev. D

## Switch-It<sup>®</sup> Proximity Head Array Owner's Manual

**SUNRISE MEDICAL LISTENS**

Thank you for choosing a Switch-It product. We want to hear your questions or comments about this manual, the safety and reliability of your system, and the service you receive from your Sunrise Medical authorized dealer. Please feel free to write or call us at the address and telephone number below:

**SUNRISE MEDICAL (US) LLC**

Customer Service Department  
12002 Volunteer Blvd.  
Mount Juliet, TN 37122, USA  
(800) 333-4000  
(800) 300-7502  
www.SunriseMedical.com

Be sure to register your product and let us know if you change your address. This will allow us to keep you up to date with information about safety, new products, and options to increase your use and enjoyment of this product.

You can also register your product at:  
www.SunriseMedical.com/register

**FOR ANSWERS TO YOUR QUESTIONS**

Your Sunrise Medical authorized dealer knows your wheelchair best and can answer most of your questions about system safety, use, and maintenance.

For future reference, please fill in the following:

Dealer: \_\_\_\_\_

Address: \_\_\_\_\_

Telephone: \_\_\_\_\_

Serial #: \_\_\_\_\_ Date/Purchased: \_\_\_\_\_

**ADDITIONAL INFORMATION YOU SHOULD KNOW**

No component of this product was made with Natural Rubber Latex.



**DISPOSAL AND RECYCLING INFORMATION**

When this product reaches the end of its life, please take it to an approved collection or recycling point designated by your local or state government. This product is manufactured using a variety of materials. Your product should not be disposed of as ordinary household waste.

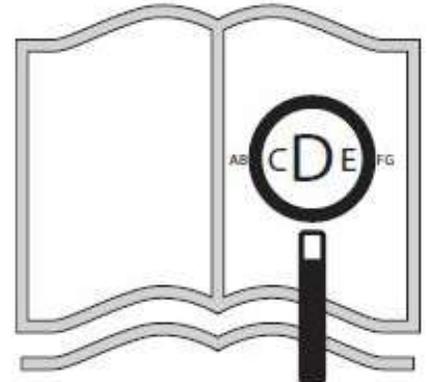
You should dispose of your product properly, according to local laws and regulations. Most materials that are used in the construction of this product are fully recyclable.

The separate collection and recycling of your product at the time of disposal will help conserve natural resources and ensure that it is disposed in a manner that protects the environment.

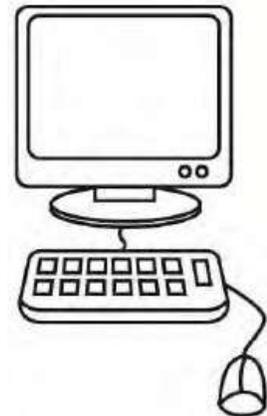
Ensure you are the legal owner of the product prior to arranging for the product disposal in accordance with the above recommendations.



www.SunriseMedical.com/register



If you are visually impaired,  
this document can be  
viewed in PDF format at  
**www.SunriseMedical.com**



Dealer signature and stamp

Empty box for dealer signature and stamp.

**NOTE:** Check all parts for shipping damage. In case of damage DO NOT use. Contact Carrier/Sunrise Medical for further instructions.

## **⚠ WARNING**

**DO NOT** install this equipment without first reading and understanding this manual. If you are unable to understand the Warnings, Cautions, and Instructions, contact a qualified clinician or Sunrise Medical authorized dealer - otherwise injury or damage may occur.



This device can be affected by Electro-Magnetic Interference (EMI) and Radio Frequency Interference (RFI). If you think the product has undergone an EMI or RFI event, please contact your Sunrise Medical authorized dealer immediately.

1. Radio wave sources, such as radio stations, TV stations, amateur radio (HAM) transmitters, two-way radios, and cellular phones can affect powered control.
2. If unintended movement or brake release occurs, turn the power wheelchair OFF and do not operate until inspected, repaired, and/or replaced.
3. If the power wheelchair acts in an erratic manner, turn the power wheelchair OFF and do not operate until inspected, repaired, and/or replaced.
4. If the joystick stem is damaged, it can cause the chair to operate erratically; turn the power wheelchair OFF and do not operate until inspected, repaired, and/or replaced.
5. If any of the device cabling becomes frayed, cut, or disconnected in any way, turn the power OFF and do not operate until inspected, repaired, and/or replaced.

## **User information**

Congratulations on choosing a Switch-It product. Sunrise Medical's high-quality mobility products are designed to enhance independence and make your everyday life easier.

As a part of our ongoing product improvement initiative, Sunrise Medical reserves the right to change specifications and design without notice.

### **This user manual**

This user manual will help you to use and maintain your product safely.

### **Area of application: The User**

The controls for power wheelchairs are exclusively for a user who is unable to walk or has limited mobility, for their own personal use indoors and outdoors, and thus requires a power wheelchair. Driving a powered wheelchair requires cognitive, physical, and visual skills. The user must be able to estimate and correct the results of actions when operating the wheelchair.

The user must be informed of the contents of this user manual before driving the wheelchair. In addition, the user of the wheelchair must be given thorough instruction by a qualified specialist before he or she participates in traffic. The first sessions in the wheelchair should be practiced under the supervision of a trainer/adviser.



## A. Product Description

Switch-It Proximity Head Arrays use proximity sensors (also called zero or near touch) which are specifically designed for wheelchair application. This means Switch-It proximity sensors are less susceptible to interference from Electro-Magnetic Fields (EMF) generated by power wheelchairs than other available proximity sensors.

Switch-It proximity sensors have the versatility to utilize 3, 4, or 5 proximity sensors built as an array to control the power wheelchair. These arrays may be built with the sensors separate from the headrest for personalized placement at any activation point convenient to the user (item Flex Array, HDR-FA-5), or embedded into the pads of the comfortable headrest. Switch-It head array users may choose from short or long and flat or curved side pads for additional personalization (see technical information for side pad dimensions).

The Flex Array system is specifically designed for clients that may have changing conditions and require different switch access locations as their condition changes. The Flex Array system includes 5 Switch-It proximity sensors; each sensor cable is built with a heavy duty quick disconnect and the system also comes with two additional sensor cable extensions, and a Switch-It headrest configured with pads of the user's choosing. The quick disconnects allow each sensor to be removed from the system for transfers or other reasons. The Flex Array proximity sensors can be placed in the headrest, adductor/abductor pads, or any other possible switch site.

Switch-It also makes a Sip N' Puff Combo Head Array, Figure 2. This special configuration allows the user to drive left and right with sensors embedded in the side pads, and forward and reverse with use of the Sip N' Puff.

The intended lifetime of this product is 5 years.



## B. Technical Information

- Alternative Control Type: Switched/Digital
- Activation Type: Proximity
- Activation Surface: 2-in x 1-in (50mm x 25mm)
- Activating Force: None required
- Sensing Distance: 10mm
- Feedback: Power wheelchair movement
- Connector Type: D-Sub 9 connection to wheelchair display
- Center/Back Pad Dimensions: 5-in x 5-in (127x127mm)
- Side Pad Dimensions:
  - Short-Curved (-SC): 4-in x 5-in (102x127mm)
  - Short-Straight (-SS): 4-in x 5.25-in (102x133mm)
  - Long-Curved (-LC): 4-in x 5-in (102x127mm)
  - Long-Straight (-LS): 4-in x 6.25-in (102x159mm) (only available option for HDR5)

## C. Compatibility

- Penny & Giles R-Net Electronics: Omni is required
- Curtis Electronics Enable 50: Enhanced Display is required
- Dynamic Controls DX2: Switch It DX Dongle (DXD) is required
- Invacare Electronics: Invacare MK6 Sip N' Puff Module (SNPMK6) is required. MicroPilot for Invacare (MP-I) version must be requested at time of order.

## D. Key Features

Within the back pad of each head array (under the back cover) is a small panel of dip switches which allows each sensor to be on or off. This is particularly useful in training environments as the user gets familiar with the head array and comfortable with driving their power wheelchair.

Flexibility of sensor placement with the Flex Array system allows for personalization to fit the needs of each user.

HDR3 and HDR4 Head Arrays come with an 1/8-in (3mm) monojack port which works with common mechanical switches with a monoplug output (i.e. egg switch, micro lite switch, etc.). Switch-It Proximity Head Arrays are available with either Switch-It 1/2-in (13mm) square or Whitmyer headrest mounting hardware, Figure 3.



## E. Troubleshooting

Call Sunrise Technical Support at 1.800.333.4000.

## F. Maintenance Tips

The wheelchair's lifespan is dependent on it being well maintained. For information concerning specific settings, maintenance, or repair work, please contact your Sunrise Medical authorized dealer.

### Hygiene measures when being re-used:

Prior to the wheelchair being re-used, it must be carefully prepared. All surfaces which come into contact with the user must be treated with a disinfection spray.

To do this, you must use a disinfectant as authorized/recommended in your country, for rapid alcohol-based disinfection for medical products and medical devices, which must be disinfected quickly.

Please be aware of the manufacturer's instructions for the disinfectant you are using.

In general, a complete disinfection cannot be guaranteed on seams. We therefore recommend that you dispose of seat and back slings to avoid micro-bacterial contamination with active agents according to your local infection protection law.

### Conditions For Safe Storage:

- Products should be stored in a dry place: at 20 – 75% Relative Humidity.
- Protect from direct sunlight and dust for long periods.
- Away from direct heat and at a temperature between 5°C (40°F) to 40°C (104°F)
- Position and stack the packaged products according to the "this side up" arrows on the packaging.
- If a package is high and narrow and therefore potentially unstable, ensure it is well secured on the pallet or in the racking, to prevent it from falling down.
- Do not stack anything on top of the packaged products when the "do not stack" mark on the packaging is shown.
- Product should never be stored outside and subject to the elements.

## F. Warranty:

Each Switch-It device is carefully inspected and tested to provide peak performance. Every Switch-It device is covered under a limited, express warranty.

1. All **electronic components** are covered under warranty for twelve (12) months from the date of shipment, provided normal use, unless modified or damaged.
2. All **mounting hardware** is covered under warranty for twelve (12) months from the date of shipment, provided normal use, unless modified or damaged.
3. All **wearable items** (covers, pads, etc.) are covered under warranty for three (3) months from the date of shipment, provided normal use, unless modified or damaged.

Warranty claims should be processed through the nearest Sunrise Medical authorized dealer. A Return Authorization number must be obtained prior to returning the item for evaluation, along with details of the issue.

Items returned for warranty claim must be evaluated by Switch-It before warranty determination is made. Should a defect in materials or workmanship occur during the warranty period, and the item has not been modified or damaged, Switch-It will, at its option, rework or replace it without charge.

Except for express warranties made herein, all other warranties, including implied warranties of merchantability and warranties of fitness for a particular purpose are excluded. There is no implied warranty beyond what is contained herein. Remedies for breach of express warranties herein are limited to rework or replacement of the goods. In no event shall damages for breach of any warranty include any consequential damages or exceed the cost of non-conforming goods sold.



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