



247751 Rev.D

## Switch-It<sup>®</sup> MicroPilot<sup>™</sup> 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:

**in North America:  
SUNRISE MEDICAL (US) LLC**

Customer Service Department  
2842 N. Business Park Avenue  
Fresno, CA 93727 USA  
(800) 333-4000  
(800) 300-7502  
www.SunriseMedical.com

**in United Kingdom:  
SUNRISE MEDICAL LTD.**

Sunrise Medical Ltd.  
Thorns Road  
Brierley Hill  
West Midlands  
DY5 2LD  
England  
Phone: 0845 605 66 88  
Fax: 0845 605 66 89  
www.SunriseMedical.co.uk



[www.SunriseMedical.com/register](http://www.SunriseMedical.com/register)

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 the product.

You can also register your product at: [www.SunriseMedical.com/register](http://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 chair 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.

If you are visually impaired, this document can be viewed in PDF format at [www.SunriseMedical.com](http://www.SunriseMedical.com)

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.

### **⚠ WARNING!**



This device can be affected by Electro-Magnetic Interference (EMI) and Radio Frequency Interference (RFI).

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 chair 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

The MicroPilot™ is a light touch proportional joystick wheelchair drive control. Force-based technology enables users with minimal strength and without range of motion to operate their wheelchair with 360° of control, as well as the full range of the wheelchair's drive parameters (speed, acceleration, etc.) The MicroPilot works in a plug-and-play fashion and is compatible with most manufacturers' electronics, including Q-Logic 2.0 and 3.0, R-Net, and older P&G.

The intended lifetime of this product is 5 years.

## B. Technical Information

- Alternative Control Type: Proportional / Analog
- Activation Type: Force / Pressure
- Initial Activating Force: 11g, adjustable  
Force required - Most sensitive: 11g - 40g  
Force required - Least sensitive: 11g - 100g
- Travel Before Activation: Zero
- Feedback: Wheelchair movement
- Connector Type: D-Sub 9 connection to wheelchair display
- Approximate Joystick Dimensions: .625-in (15.9mm) diameter x 2.25-in (57.2mm) height (without knob)

## 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

- Metal construction offers significant durability advantage.
- The MicroPilot is the only force/pressure-based miniature proportional joystick on the market.

## E. Sensitivity

The MicroPilot comes with a sensitivity adjustment potentiometer to change the amount of force required for joystick activation. The MicroPilot comes from the factory at the most sensitive setting (11g -40g) and is adjustable from 11g to 100g. (Fig. 1 dial)



## F. Calibration

It is possible to recalibrate the device in certain instances, such as when a heavier knob is used or the device is used at 90° angles. To recalibrate the joystick:

1. Mount the joystick in the location of intended use.
2. Ensure nothing is touching the knob throughout the calibration process in order to get an accurate and successful recalibration.
3. Turn power wheelchair off and ensure nothing is placing any force on joystick knob/stem.
4. Press and hold the red button inside the housing of the device with a small allen wrench, paper clip, or other small object. (Fig. 2, red button)
5. As you continue to hold the red button, turn the power wheelchair on. The LED status indicator will blink, alternating between red/blue.
6. Release the red button, press it again for 1 second, then release.
7. Check the LED status indicator light:
  - BLINKING BLUE** indicates that calibration was **SUCCESSFUL**
  - BLINKING RED** indicates that calibration **FAILED**
8. Cycle power on the power wheelchair, and the LED status indicator light (Fig. 3) should return to a **SOLID GREEN** until activated.

Unsuccessful calibrations are caused by the joystick having force in any direction too far from the factory calibrated settings. If the LED status indicator remains blinking or solid red, or for any additional help, please contact your Sunrise Medical authorized dealer.

## G. Troubleshooting

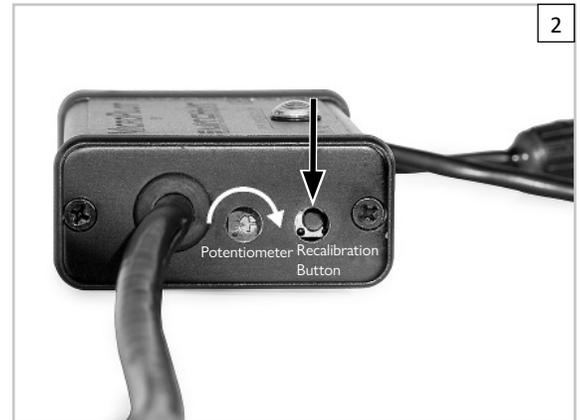
### LED Status Indicator Light:

- Solid Green - Neutral. Device is ready, check all programming settings per Set-up Guide.
- Blinking Green - Driving
  - Note:** If LED is blinking green and joystick is not being touched or deflected, it is likely the joystick stem is bent - call customer service for a Return Authorization number.
- Solid Red - Device needs service. Call customer service for a Return Authorization number.

**Problem:** The chair is veering or not driving straight.

**Solution:** Confirm that the joystick is mounted securely and the forward indicator is facing forward. (Fig. 4)

If additional help is needed, please contact your Sunrise Medical authorized dealer.



## H. Maintenance Tips

The wheelchair's lifespan is dependant 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 authorised/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.

## 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.

Type:	Product Name/ SKU Number		This symbol means Medical Device
	Serial Number		Manufacturer's address
 XXXX-XX-XX	Date of Manufacture		European Authorised Representative
	CE Mark		UK Responsible Person
	UKCA Mark		Swiss Representative's address
	Consult instructions for use		Importer's address

The management system of SUNRISE MEDICAL is certified to EN ISO 13485 and ISO 14001.

We at SUNRISE MEDICAL have been awarded the ISO-13485 certificate, which affirms the quality of our products at every stage, from R & D to production. This product meets the requirements in accordance with EU and UK regulations. Options or accessories shown are available at extra cost.

The varieties of fitting variants, as well as the modular design, mean that it can be used by those who cannot walk or have limited mobility because of:

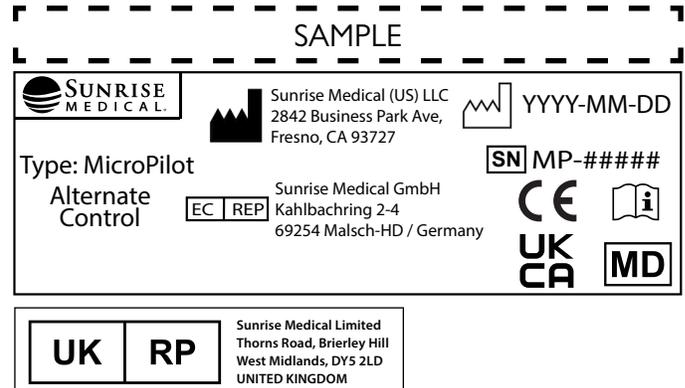
- Paralysis
- Loss of extremity (leg amputation)
- Extremity defect deformity
- Joint contractures/joint injuries
- Illnesses such as heart and circulation deficiencies, disturbance of equilibrium or cachexia as well as for elderly people who still have strength in the upper body.

The wheelchair shall not be used in case of:

- Perception disorder
- Imbalance
- Seating disability

NOTE: General user advice. Not following these instructions may result in physical injury, damage to the product or damage to the environment!

Notice to the user and/or patient: any serious incident that has occurred in relation to the device should be reported to the manufacturer and the competent authority of the Member State in which the user and/or patient is established.



 As the manufacturer, SUNRISE MEDICAL, declares that this product conforms to the Medical Device Regulation (2017/745).

 As the manufacturer, SUNRISE MEDICAL, declares that the product conforms to the UK Medical Devices Regulation 2002 No. 618.

### B4Me special adaptations

Sunrise Medical strongly recommends that in order to ensure that your B4Me product operates, and performs as intended by the manufacturer; all the user information supplied with your B4Me product is read and understood, before the product is first used. Sunrise Medical also recommends that the user information is not discarded after reading it, but it is kept safely stored for future reference.

### Medical Device Combinations

It may be possible to combine this Medical device with one or more other Medical Device or other product. Information on which combinations are possible can be found at [www.Sunrisemedical.co.uk](http://www.Sunrisemedical.co.uk). All combinations listed have been validated to meet the General Safety and Performance Requirements, section 14.1 of the Medical Device Regulation 2017/745.

Guidance on the combination, such as mounting, can be found at [www.SunriseMedical.co.uk](http://www.SunriseMedical.co.uk).

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