# Table of Contents

<table>
<thead>
<tr>
<th>Section</th>
<th>Page</th>
</tr>
</thead>
<tbody>
<tr>
<td>Introduction &amp; Company History</td>
<td>1</td>
</tr>
<tr>
<td>Switched Drive Controls</td>
<td>2-4</td>
</tr>
<tr>
<td>Head Arrays</td>
<td>2-3</td>
</tr>
<tr>
<td>Laptrays</td>
<td>4</td>
</tr>
<tr>
<td>Tough Joystick</td>
<td>4</td>
</tr>
<tr>
<td>Naked Sensor Systems</td>
<td>4</td>
</tr>
<tr>
<td>Proportional Drive Controls</td>
<td>5-8</td>
</tr>
<tr>
<td>TD series touch drive controls</td>
<td>5</td>
</tr>
<tr>
<td>TD2</td>
<td>5</td>
</tr>
<tr>
<td>TDTray</td>
<td>5</td>
</tr>
<tr>
<td>MicroSeries mini joysticks</td>
<td>6-7</td>
</tr>
<tr>
<td>MicroPilot</td>
<td>6-7</td>
</tr>
<tr>
<td>MicroGuide</td>
<td>6-7</td>
</tr>
<tr>
<td>DriveStation</td>
<td>8</td>
</tr>
<tr>
<td>Compact Joystick</td>
<td>8</td>
</tr>
<tr>
<td>Proportional Head Control</td>
<td>8</td>
</tr>
<tr>
<td>Individual Switches</td>
<td>9</td>
</tr>
<tr>
<td>Multi Function Switches</td>
<td>10</td>
</tr>
<tr>
<td>Other Controllers and Devices</td>
<td>11</td>
</tr>
<tr>
<td>Custom Requests</td>
<td>12</td>
</tr>
<tr>
<td>Lease Program</td>
<td>12</td>
</tr>
</tbody>
</table>
## Introduction

For over 25 years, Switch It has been helping persons with disabilities achieve mobility through alternative drive controls for powered mobility. Our team of engineers and rehab professionals works closely with power wheelchair manufacturers, rehab clinicians, and our extensive network of rehab providers to make our products the most advanced and most appropriate in the market today.

We continue to evolve by exploring new technologies and applying them to mobility applications. Our philosophy of bringing smart technologies to powered mobility in order to help persons with disabilities regain mobility and independence has served us well over the last quarter century and will continue to do so as we grow and help the powered mobility community globally.

Mark Parker,
President and Founder

## Company History

Switch It’s humble beginnings trace back to 1988 when Mark helped his wife Carol, an occupational therapist, search for a solution for one of her young patients to drive a powered wheelchair. Mark designed a head array with sensitive and durable proximity sensors used in industrial settings and subsequently pioneered their use as drive controls for wheelchair applications. Switch It was formed as he found how effective this and other technologies made it possible for persons with disabilities to regain their independence and drive power wheelchairs. Since that first simple drive control system, Switch It has developed much more highly advanced drive controls, with a recent focus on more proportional and hybrid (proportional/switched) drive controls to give powerchair users the best driving experience possible.

## Product Overview

Switch It utilizes state of the art technology and suppliers for all of our components. Our products are designed specifically for their intended use in power wheelchairs so that they operate safely and effectively.

We also collaborate with our customers and clinicians to design practical and cutting edge products. Switch It drive controls are designed specifically for most expandable powerchair electronics, so it is quick and easy to set up the chair for driving.

Our nationwide sales force and international distributors are available to support our rehab providers and clinicians in the evaluation, sales and support of our products to ensure that the client gets the most appropriate product and service available.

For more information, or a product evaluation, call 1.800.376.9888 or contact your local Switch It representative. A complete list of representatives is available at www.switchit-inc.com/replist.php
Switched Drive Controls

Every Switch It switched drive control can work with every major manufacturer’s expandable wheelchair electronics, including the PGDT R-Net and Pilot Plus series electronics, Curtis, Quantum’s Q-Logic; Dynamic DX & DX2, and Invacare’s MKVI.

Head Arrays

Switch It head arrays are the most versatile head arrays on the market today. Not only are they offered in 3, 4 or 5 switch versions, but we work with more headrest manufacturers than any other head array company to offer the most options in headrest styles, including Stealth, Therafin, and Whitmyer headrests as standard parts. We offer many standard and custom configurations, as well as hybrid systems (sensors combined with other type of sensors to best meet the client’s needs). The head arrays can be 3 direction or 4 direction, based on the client’s needs and preferences.

Many head array models are equipped with a built in dipswitch panel. This panel gives you the ability to turn on or off each sensor for evaluation or training purposes, and is designed so the switches cannot become loose during normal operation or be inadvertently unplugged from curious kids.

Introducing The New SELECT-ARRAY

Future head array models will include a built-in SELECT-ARRAY module, which gives much more functionality and adjustability than ever before in a switched system. The module is currently available as a stand-alone SELECT-ARRAY DONGLE for using on existing head arrays or other switched drive systems. Whether it is embedded or as a stand alone dongle, the SELECT-ARRAY will allow you to electronically re-assign the function of a particular switch or switches without needing to unplug an existing cable, therefore not compromising the integrity of a current connection, or sacrificing the functionality of another switch. (you don’t have to “swap” functions; but rather re-assign.) For example, all switches in a head array could be re-assigned for mode. A particular switch can also be electronically disabled or re-assigned to a monojack for external or auxiliary use. All this is done in an very simple and easy user interface for quick settings and easy return to factory defaults if necessary.
Switched Drive Controls

Standard 3 Switch Head Array (HDR-4M)

Mini 3 Switch Head Array (HDR-3)

Standard 5 Switch Head Array (HDR-5)

Whitmyer 3 Switch Head Array (JW-HDR-3)

Flex-Array Package (formerly the ALS Head Array Package)

The Flex-Array Package is a proximity sensor system specifically designed for clients that may have changing conditions and require different switch access locations as their condition changes. The standard Package includes 4 sensors, each on a heavy duty quick disconnect, a headrest, and two additional extension cables. The sensors can be placed in the headrest, adductor/abductor pads, or any other desired switch site, as needed. The quick disconnects allow each sensor to be removed from the system for transfers or other reasons.

Combo Sip and Puff Head Arrays

A combination Sip and Puff Head Array helps eliminate the issues sometimes associated with a pure Sip and Puff drive control. By not having to differentiate between a hard and soft sip or puff for four directions, the user can do any level of sip or puff for forward and reverse and use a slight roll of the head for left and right, allowing much better control and veering. We also offer our Opti-Stop fiber optic switch attached to the straw as a standard feature as an essential safety component of a Sip and Puff system. The chair will automatically stop if the switch and straw come away from the driver’s mouth.
Lap Trays
Switch It offers clear or black acrylic lap trays with either proximity or fiber optic sensors secured inside them. They are equipped with quick disconnect cables so the tray can easily be removed from the chair.

CincoSwitch Minipad
The CincoSwitch is a miniature pad with 5 dime-sized mechanical button switches for directions and mode (in the middle). The buttons are flush with the housing, which is small enough to fit in the palm of a small hand. The CincoSwitch is similar in size and application as the discontinued PentaSwitch from Ablenet, and it can also be used for dedicated seat functions instead of as a drive control.

Tough Joystick
The Tough Joystick is a heavy duty switched joystick (with 4 or 8 directions) ideal for someone with high tone that can put their equipment to the test.

Naked Systems
Naked Sensor Systems are simply proximity sensors or fiber optic switched not embedded in headrests, laptrays or anything else, so that the rehab provider can make a custom system at their own facility to meet the needs of the wheelchair driver.
**Proportional Controls**

Switch It Proportional Drive Controls give the driver the ability to operate their wheelchair with 360 degrees of control as well as the full range of the wheelchair’s drive parameters (speed, acceleration, etc.). Like our switched drive controls, they work in a plug and play fashion. They are compatible with the majority of power wheelchair manufacturers’ electronics, including Quantum’s Q-Logic and Permobil and Quickie’s R-Net, as well as older Penny & Giles.

**TD SERIES TOUCH DRIVE CONTROLS**

The Switch It TD Series is a new line of touch drive controls using a capacitive touchscreen similar to screens used in phones and tablets such as Androids, iPhones, and iPads. Unlike the resistive pad that required pressure on the original TouchDrive, the screens on the new TD series are touch only, not requiring pressure. With the popularity of touchscreen devices, The TD Series controls can be intuitive and help someone that was not previously a hand driver, drive proficiently with their finger, palm, or knuckles. These attributes open up the doors for a whole new population of potential users.

**TD2**

The TD2 has several features and settings that make it unique and able to customize it for the user:

- Based on simple touch, not pressure
- Intuitive and proven cellphone touchscreen technology
- It can be set by the dealer to be used in one of two drive settings:
  - Absolute proportional (based on where you TOUCH on the screen)
  - Relative proportional (based on the direction you DRAG or move finger on the screen)
- Built-in mode switch positioned over the logo on the screen that can be enabled or disabled based on the user’s preference or ability.
- Housing: 5” wide x 6 5/8” tall; Screen: 3 3/4” wide x 5 1/8” tall (6” diagonal)

**TDTray**

The TDTray is a much larger version of the TD2 for more gross movements, but has one more unique setting that can help someone achieve mobility as well as improve their driving efficiency as they become more proficient. The TDTray can be set by the dealer to be used in one of THREE drive settings to optimize it based on the user’s ability and/or driving preference:

- Absolute proportional (based on where you TOUCH on the screen)
- Relative proportional (based on the direction you DRAG or move finger/hand on the screen)
- Switched
  - Assign various areas of the screen as directions and mode
  - Adjust the size of each area to fit the user’s ability
  - Ability for dealer to easily change it from this “switched lap tray” to a fully proportional tray with the flip of a switch

**Housing:** 18” wide x 16 1/2” Tall  
**Screen:** 14 1/2” wide x 11 3/4” tall  
18 1/4” diagonal
**MicroSeries mini Joysticks**

**MicroPilot**

- Virtually no joystick throw! Force based technology
- Dealer accessible sensitivity adjustment
- Adjustable for approximately 10 to 50 grams of force
- All internal metal components means outstanding durability
- For Chin, Finger, Thumb or other extremity applications
- Approximate Joystick Dimensions:
  - Diameter: 5/8”  x Height without knob: 2 ¼”

**MicroGuide**

- Size and durability of the proven *MicroPilot* but with joystick throw (deflection) for clients that prefer the feedback of movement
- ¼” neutral to forward joystick throw with standard knob
- ~40 grams of force for activation
- For chin or finger and other extremity applications
- Uses same proven and easy mounting as *MicroPilot*
- Approximate Joystick Dimensions:
  - Diameter: 5/8”  x Height without knob: 2.8”
There are many mounting options for the MicroSeries offered by Switch It, as well as other wheelchair accessories & hardware manufacturers, for a variety of applications, including swing away chin mounts, midline mounts for finger, or simple “stand-alone” mounting. Here are some of the most common offered by Switch It.

**MicroSeries Mounting Options**

- MicroGuide in BDN2
- Chin Harness (BDN2)
- MicroPilot in stand-alone mount (MPMH-SA)
- Bottom view of Bullet Tray showing multi-axis adjustment and multiple joystick mounting positions
- MicroPilot in Bullet Tray with fiber optic in gooseneck for mode and on/off
- MicroGuide in Stealth swingaway mount (ST-SM638)
- Standard Knob & Knob Covers
- MicroPilot in Bullet Tray (BT)
- MicroGuide in BDN2 Chin Harness (BDN2)
- MicroPilot in stand-alone mount (MPMH-SA)
Proportional Controls

DriveStation

The DriveStation has proven to be a very functional, durable and viable proportional drive control that has helped many users regain mobility independence. While there have been other wheelchair joysticks that have been mounted into game controllers, the DriveStation is the first and only that uses the integrated gaming joysticks for driving.

- Unmodified PlayStation 2 controller, so integrity of module is not compromised
- Same feel, throw, and durability as kid-tested, proven game controllers
- Switch It module translates the outputs from the controller into signals that the wheelchair electronics understand for driving, seat functions and other functions
- Ability to drive proportionally through the analog joysticks or switched through any of the other buttons/switches
- Can be customized for dedicated seat functions through any of the buttons/switches or joysticks

Compact Joystick (JSC)

The Switch It Compact Joystick (or Joystick in a Can) is a full direction joystick in a compact housing for alternative mounting solutions such as for chin control, tray, or foot control.

Proportional Head Control (RIM)

The Switch It Proportional Head Control is a 3 direction proportional joystick integrated into a headpad that can be toggled between forward/left/right and reverse/left/right set-up either through mode/reverse switch or a quick tap of the backpad, depending on the chair electronics.
Individual Switches

Individual Mechanical Switches

Switch It provides a number of different individual switches, which can be used for parts of drive controls systems or for other functions, from simple on/off to mode to dedicated seat functions. Any three or more switches can be used to built a switched drive control system (either 3 or 4 direction). We both manufacture our own and distribute other popular switches to complement our drive control packages.

Here is a partial list of some type of switches:

Individual Mechanical Switches
- Mini Lever Switch (NEW!)
- Mini Button
- UniWob (Wobble Switch)
- MicroLite
- Buddy Button
- Spec Switch

Individual electronic switches
- Proximity
- Adjustable Proximity
- Fiber Optic
- Photoelectric
Switch It provides a number of different multi-function switches, which can be used for parts of drive controls systems or for other functions, from simple on/off to mode to dedicated seat functions. Any 3 or more total switches can be used as a drive control. Here is a partial list of some type of switches:

### Multiple Function Mechanical Switches
- Mini Button 2
- Mini Button 4
- Sip & Puff
- Dual Toggle
- Compact Switched

### Multi Function Electronic Switches
- Proximity
Other Controllers and Devices

Seat Function Scanners

Similar to single switch scanners for driving, our scanners are dedicated strictly to seat functions. The Single Switch Scanner allows seat activation with one switch of any type as the seat function is displayed on a scanning display with an adjustable time rate, or can be set to manually scroll, based on the user’s preference or ability.

Remote Devices

Our Remote Stop Switch allows an attendant to stop a chair being driven by the user via an RF remote from up to 100 feet away (depending on the environment). We also offer the Remote Commander for driving a chair via an RF switch drive control remote for certain chair configurations.

Link Selector (for evaluation purposes only, not for sale)

The Link Selector is an excellent evaluation tool to determine the optimal configuration for a person to drive with switched drive control. It allows the different directions or mode to be operated by various switch inputs, depending on what is best for the driver, and which toggle is thrown.
Our R&D and production department work together to provide custom solutions to our customers’ needs, whether it is simply embedding our sensors in aftermarket headrests for a custom head array with support and positioning benefits or designing specialized switches to perform special functions.

Lease Program

The Switch It Lease Program is designed for someone who has a progressive condition and may need different drive controls over a period of time. During the course of the five-year lease, different drive controls may be changed out immediately without any additional cost, and therefore, not having to wait for additional medical justification or reimbursement, so the client can immediately utilize the drive control necessary to operate his or her chair.