

SWITCH-IT
SMART TECHNOLOGIES

ALTERNATIVE
DRIVE
CONTROLS



WHY CHOOSE SWITCH-IT™

While many products utilized for wheelchair applications are borrowed from other industries, SWITCH-IT products are designed specifically for their intended use on power wheelchairs so they operate safely and effectively. We collaborate with our customers and clinicians to design practical and cutting edge products, and we utilize state-of-the-art technology and suppliers for all our components. Switch-It drive controls are designed to work with the majority of power wheelchairs in a plug and play fashion, so setting up for wheelchair driving is quick and easy.

SWITCH-IT's humble beginnings trace back to 1988 when Mark Parker, the founder of SWITCH-IT, helped his wife Carol, an occupational therapist, look for a way to help one of her young patients drive a powered wheelchair. Mark drew from his knowledge of highly sensitive and durable proximity sensors and subsequently pioneered their use as drive controls for wheelchair applications. SWITCH-IT was formed as he found how effectively this and other technologies made it possible for persons with disabilities to regain mobility and independence.

SWITCH-IT continues to implement ideas from our customers and clinicians, designing new solutions and constantly refining our products. And we continue to evolve by exploring other new technologies and applying them specifically for powered wheelchair mobility.

OUR PHILOSOPHY

Bringing **smart technologies** to powered mobility in order to help persons with disabilities regain mobility and independence.

Our philosophy has served us well over the last thirty years and will continue to do so as we grow and help the powered mobility community both locally and around the world.

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MINI PROPORTIONAL JOYSTICKS

MICROPILOT AND MICROGUIDE

Proportional input devices offer the fine control users need for independent access of their world. SWITCH-IT offers two options for mini-proportional control: the MicroPilot and MicroGuide. Clients who have very limited range of movement and/or strength can benefit from the zero-throw, force-based MicroPilot. For those clients who would still benefit from light force requirements but need the feedback of joystick movement, the MicroGuide is the ideal choice.

MicroPilot



MicroGuide



COMPACT JOYSTICKS

VERSAGUIDE

The VersaGuide is a fully proportional and durable compact joystick that can be mounted virtually anywhere. Its unlimited mounting options are what give the versatile VersaGuide its name.

The VersaGuide comes with two built-in jacks for mode and on/off, called SmartJacks, which are unique to the VersaGuide. The SmartJack sensor input will automatically adapt to both proximity and mechanical switches.

Versaguide EZ

The VersaGuide EZ offers a lighter force and shorter throw for users with difficulty reaching maximum movement for full proportional control.



VersaGuide with Flex Switches



ALL-ROUND

The multifunctional All-Round Joystick is the compact version of a standard wheelchair joystick. It features two jacks for on/off and mode operation. It comes in a DB9 connector or direct R-Net Bus connector version. The All-Round Joystick is also available in Light, a compact version of the standard wheelchair joystick but with less required force than the standard.

All-Round Joystick with Satellite Twister Switches



ADDITIONAL PROPORTIONAL CONTROLS

TOUCHDRIVE 2 (TD2)

The TouchDrive 2 uses proven smartphone touchscreen technology for ultra-sensitive and precise proportional driving capabilities. Simply make contact with the glass surface of the device for activation; no force is required. Maintaining contact with the screen will allow for full driving capabilities including turning, veering, and spinning around. The TD2 allows for mode access through either a built-in mode switch on the screen (Switch-It logo) or an external jack for mechanical mode switches.

Absolute and Relative Modes

The TD2 can be configured for either absolute or relative modes. When in absolute mode, the middle of the TD2 active area is always center/neutral. When in relative mode, wherever the user touches again becomes the new center/neutral.



DRIVESTATION

The DriveStation is the first and only wheelchair joystick mounted into a game controller that uses the integrated gaming joysticks for driving. The DriveStation uses a PlayStation® 2 controller, which is unmodified, maintaining the module's integrity. The DriveStation translates the controller's output into signals the wheelchair understands for driving, seat functions, etc. DriveStation offers proportional controls through analog joysticks and switch controls through other buttons. The buttons and switches can be assigned to dedicated seat functions.



HEAD ARRAYS

If the client needs proportional control, SWITCH-IT's proportional head arrays offer this feature. Any of our head controls can be combined with all of the WHITMYER® head positioning accessories to provide the most comprehensive head control setup in the industry.

DUAL PRO®

The Dual Pro is a truly proportional head array with fine-tuned adjustments and customization to provide the user an easy-to-learn, precise, and intuitive driving experience.

The Dual Pro offers a full range of acceleration and deceleration, 360° turning range and veering control for superior drivability.

The Dual Pro can be programmed conveniently from the back pad of the head array.

It can be customized and adjusted to each user's strengths and capabilities. The left and right pad can be individually adjusted.



RIM PROPORTIONAL

Three-direction proportional joystick integrated into a head pad. The drive control can toggle between forward-left-right and reverse-left-right setup, either through mode-reverse switch or a quick tap of the back pad (depending on the chair electronics).



If the client needs simple proximity control, SWITCH-IT traditional head arrays use zero-touch proximity sensors which are specifically designed for power wheelchair application. Our sensors comply with RESNA standards for Electromagnetic Compatibility. SWITCH-IT's proximity head arrays offer comfortable covers and soft foam padding preferred by many users.

3, 4 OR 5 SWITCH

The HDR-4M2 is a 3-switch head array with two 3 mm mono jacks for a dedicated external mode switch to provide 4th and 5th functions as desired. The HDR-5 is a 5-switch head array with a dedicated sensor for reverse and a dedicated sensor for mode in the opposite wing. A dipswitch panel on the back of the head array gives the ability to turn the sensor on or off.



SWITCHED DRIVE CONTROLS

SIP 'N PUFF HEAD ARRAY

Sip 'N Puff pneumatic control allows for independent mobility where extremity and head control are insufficient to do so. The Sip 'N Puff Head Array combo gives the user the ability to turn with side-to-side movement through a head array and drive forward and reverse through the pneumatic switch when neck extension is compromised. This offers improved control and veering for the user.

OptiStop with Sip'N Puff

Sip 'N Puff users who would like a safety stop switch in close proximity to the Sip 'N Puff straw may select the OptiStop with Sip 'N Puff mounting hardware. This system uses a fiber optic switch which senses the presence of the user's lip, cheek, etc, while the chair is driving. If the user moves or falls away from the fiber optic beam, the OptiStop inhibits the system.



SJX6 HUB

SJX6 offers the ability to place a combination of mechanical or proximity switches to control 4-way driving, mode, and on/off. OR it can be used with QUICKIE® assignable buttons to allow for custom switch placement to control anything the chair can do.



SWITCHES

Individual remote switches for individual access. SWITCH-IT provides a number of different individual switches, which can be used as inputs for drive control systems or other functions.



Buddy Button

black, blue, green, red, yellow



Egg Switch

black, blue, green, red, yellow



MicroLite



Piko Button

black, blue, green, red,
orange, yellow



**Satellite Twister
Switches**

black, green, red



Mini 1 Button

blue, green, red



Mini 2 Button



Mini 4 Button



Fiber Optic Switch



Flex Switch

MOUNTING SYSTEMS

LINK-IT™

The Link-It Mounting System is universal, flexible, expandable, and versatile. With its wide range of connecting components and modules, the positioning of a joystick or switch has never been easier. Headrest, armrest, knee or backrest – input devices can now be mounted wherever the client has best access to it. Link-It is always adjustable, always positionable.



Knee Mount

Using standard Link-It components, it is now possible to locate switches, or any other input devices, for access by lower extremities.

CHIN BOOM

The Chin Boom is a long L-shaped rod for mounting joysticks like the VersaGuide or MicroGuide to a single universal interface attached at the backrest. This provides the user with chin or mouth control without wearing a harness and makes transferring easier. The swing-away arm is available in powered or manual and incorporates a specially designed friction clutch for emergency swing-away and force reduction to the gear box.

Powered Chin Boom features

The powered swing-away version connects directly to the R-Net bus for power supply and has a 3.5 mm jack to connect individual switches for the swing-away operation. It will automatically reset its position to the same point.



FOR ADDED SAFETY

REMOTE STOP SWITCH

The Remote Stop Switch allows an attendant to stop a powered wheelchair via an RF remote from up to 30 meters away. (Operating distance dependent on the environment.)

