

Pretorian

TECHNOLOGIES

Inspired by You!



Product Catalogue

www.pretorianuk.com

Inspired by You!

Pretorian Technologies began life in 2001 as an industrial trackball manufacturer. Its directors had, between them, more than forty years experience in designing and manufacturing trackballs, most of which was gained working at Marconi, the inventors of the trackball.

Around ten years ago, in an effort to increase our market scope, we developed the n-ABLER Trackball. The rest, as they say, is history. The product was an immediate success and so began a dizzying roll out of every one of the Assistive Technology products you see in this catalogue - a process that continues to this day and beyond.

Our ability to introduce so many new products is due to a number of factors. Firstly, all of our products are designed in-house by the company's majority shareholder- me! This allows us to react very quickly to emerging needs as the industry moves forward. It also ensures that our products are totally consistent from one to the next and allows us to plan forward by introducing features into products that we will make use of in the future.

Secondly, we manufacture all of our products in-house too, allowing us strict control of quality via our ISO2001:2015 certification and allowing us to offer the shortest lead-times in the industry, coupled with 100% on-time delivery.

But the main reason we are able to do all of this is that we are passionate about what we do. When we say that our products are 'inspired by you', we really mean it. We can think of no greater calling than to create a product that changes the life of somebody who needs a little extra help and we know from the many letters and emails we receive that our products really do change lives.

We especially love it when somebody asks us to solve a particular challenge they are facing and many of the products you will see in this catalogue were born out of such discussions. So please never be afraid to send us a 'wouldn't be good if we had.....' email- we live for them!

Ten years on from our first AT product, the industry is a very different place. iPads changed everything and we are proud to have products such as APPLICATOR, which has become the must-have iPad access device, and the new iClick- the industry's first iPad output device.

The future will offer up many new and interesting accessibility challenges but you can be sure that Pretorian will be there for you, every step of the way.

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iPad and Android Input Devices

Tablet computers have taken the Assistive Technology industry by storm and some may say, by surprise. The rate at which iPad in particular has been adopted in schools has been breathtaking. Fortunately, Pretorian anticipated this and was first to market with a custom-designed Bluetooth switch interface- the APPLICator. This was and remains a meteoric success story and the fact that it is almost completely unchanged since its launch is testament to just how well it fits the needs of users.

Whether you use switch adapted apps, music, camera or full navigation using iOS Switch Control, Pretorian has a product that will meet your needs.

The launch of iSwitch galvanised Pretorian's position as the industry's leading supplier of iPad switch input devices. Quite simply, it is APPLICator built into a switch!

For users who have the dexterity to use a joystick, J-Pad is the next logical progression since it allows users to navigate iOS Switch Control using intuitive stick movements.

Mac and Android users can also reap the benefits of these products through their ultra-reliable Bluetooth connection. Both iPad and Android users can also make use of the SimplyWorks range via the SimplyWorks for iPad and Receive Micro respectively (see also SimplyWorks section).



Bluetooth Products

APPLICATOR

- ✓ Switch adapted apps
- ✓ Music/Video
- ✓ Camera
- ✓ iOS Switch Control

Connectivity Bluetooth Use with

iPad, iPhone, iPad Mini, iPad Pro
Android phones and tablets
Apple Mac
Chromebooks with Bluetooth



Features

- Four 3.5mm sockets for wired switches, allowing any type of switch to be connected.
- Each switch function independently programmable for maximum versatility.
- QuickMedia selection mode for rapid access to music, video, still and video photography without changing your switch settings.
- Timed play settings-plays music for 10 seconds or 30 seconds.
- Rechargeable lithium-ion battery via supplied USB lead.
- Very robust
- 20 metres (64 feet) operating range.
- Integral button allows on-screen keyboard to be deployed or hidden at any time.
- NEW- Selectable single-shot mode on each switch- for users who take longer to release a switch.
- NEW- lock feature to prevent accidental changes to the settings.
- NEW- manual power-off feature.

The APPLICATOR switch interface is a very robust, flexible device which allows up to four switches to be connected to iPad, iPhone, Android or any other platform supporting Bluetooth connectivity. It is undoubtedly one of Pretorian's flagship products.

Key to APPLICATOR's success is its versatility. Each one of the switches can be independently programmed to be any of the 24 available functions which include everything you may need to achieve switch adapted app access, media access or full navigation using iOS Switch Control.

Press the QuickMedia button and the switches are automatically changed to play/pause, track forward, track back and timed play without affecting your switch settings, allowing you quick and easy access to music and video without reprogramming. One more press of QuickMedia and you're back where you were.

Timed play functions are provided to give either 10 seconds or 30 seconds of music or video playback and are frequently used as a reward after the user completes an exercise or to encourage reluctant switch users.

Did you know?

You can use any switch set to Volume Up to take photos or shoot video in the camera app. Why is it Volume Up? Because this button is in a similar place on an iPhone to the shutter on a conventional camera.

We're always interested to hear user feedback, as a result of which we have recently introduced three new features into APPLICATOR:

- Users who need extra time to remove their hand from a switch can now program APPLICATOR to send a 'single-shot' switch closure no matter how long the switch is pressed. This prevents accidental multiple scanning, for example.
- A lock feature has been added to prevent accidental changes to the settings.
- A manual power-off feature has been added to prevent accidental wake-up when transporting with switches still connected.

Whatever you may need APPLICATOR for, you can have confidence that it will meet your current needs and the comfort of knowing that it will continue to do so as your needs change.

Learning Progression in iPad

Why not introduce users to APPLICATOR by first setting it to play some music- especially if it's from the user's own play list. This is a sure way to engage them quickly. Then, as they progress, why not move on to taking a few photos or even some video? Once the users have gained more familiarity, switch adapted app titles may be the next step and then, if the user has sufficient cognitive skill, iOS Switch Control can give full navigation of everything that iPad offers.

APPLICATOR or iSwitch?

These products are very nearly the same in functionality. If you can use one, you can use either since they are programmed in exactly the same way. The choice between the two is largely a matter of what situation they are being used in and what needs the user may have. For carrying out assessments, we recommend APPLICATOR since it has the edge in terms of flexibility. Once the assessment of the user has been carried

out using APPLICATOR, that's the time to consider whether iSwitch may be a better alternative. For example, if only one switch is required and it is to be placed on a desk or wheelchair table, iSwitch may be the best choice since it is completely wire free. On the other hand if the switches are built into the headrest of a wheelchair, APPLICATOR would be the best choice since there would be no benefit in a built-in switch.

iSwitch

- ✓ **Switch adapted apps**
- ✓ **Music/Video**
- ✓ **Camera**
- ✓ **iOS Switch Control**

Connectivity Bluetooth

Use with

iPad, iPhone, iPad Mini, iPad Pro

Android phones and tablets

Apple Mac

Chromebooks with Bluetooth



Available Colours



Features

- One built-in 75mm switch and two 3.5mm sockets for additional switches.
- Each switch function independently programmable for maximum versatility.
- Timed play settings-plays music for 10 seconds or 30 seconds.
- Rechargeable lithium-ion battery via supplied USB lead.
- Very robust
- 20 metres (64 feet) operating range.
- Integral button allows on-screen keyboard to be deployed or hidden at any time.
- Manual power-off feature.

In common with APPLICATOR, iSwitch now also incorporates the following features:

- A manual power-off feature has been added to prevent accidental wake-up when transporting.
- Lock feature to prevent accidental changes to the settings.

The iSwitch is a very robust, flexible device which allows the integral 75mm switch and up to two additional switches to be connected to iPad, iPhone, Android or any other platform supporting Bluetooth connectivity. It is almost identical in use to APPLICATOR - the main difference, other than the switch provision, is that iSwitch does not include the QuickMedia feature.

Key to the success of iSwitch and APPLICATOR is their versatility. Each one of the switches can be independently programmed to be any of the 24 available functions which include everything you may need to achieve switch adapted app access, media access or full navigation using iOS Switch Control.

Timed play functions are provided to give either 10 seconds or 30 seconds of music or video playback and are frequently used as a reward after the user completes an exercise or to encourage reluctant switch users.



Did you know?

Both APPLICATOR and iSwitch may be configured so that a switch can give Enter on a brief press and Home following an extended press? This means that just one switch is all that's necessary to achieve single switch auto-scanning using iOS Switch Control, allowing the user to scan to an app, open it, scan within the app and finally quit the app.

✓ iOS Switch Control

Connectivity Bluetooth Use with

iPad, iPhone, iPad Mini, iPad Pro

Features

- Highly intuitive access device for iOS Switch Control scanning.
- Fully Supports Siri
- Intuitive operation
- Integral, rechargeable lithium-ion battery
- Touch-sensitive buttons, or plug in external switches
- Joystick scanning access to your iPad including Apps, Music and Photography

J-Pad is a unique, highly intuitive joystick interface providing ergonomic switch access to iOS Switch Control. Instead of needing to remember what each switch does in a typical switch-based configuration, J-Pad's user-interface makes it obvious. If the user needs to scan upwards, then move the stick upwards. Similarly, to scan to the right, move the stick to the right. To select, touch the green switch and to close an app, touch the red switch.

J-Pad is not for everybody. It needs the user to have the motor skills to be able to operate a joystick and the cognitive skills to be able to use iOS Switch Control in the first place. When these two conditions hold true, the user can navigate more quickly and with less frustration.

The red and green buttons are entirely touch sensitive using similar technology to a touch screen, so no pressure is required. Alternatively, external switches may be plugged in via the two 3.5mm sockets, in which case the touch sensitive switches are disabled, allowing the user to lean across them without fear of activation.

Siri has become a very valuable aid to users with disabilities so J-Pad fully supports Siri access.



Dimensions:
145 x 90 x 70mm high.
Palm rest height 18mm.

Did you know?

You can disable Siri access on J-Pad if the user is unable to remove their hand from the red button quickly enough to prevent Siri being activated.

SimplyWorks for iPad

✓ Switch adapted apps

✓ Music/Video

✓ Camera

✓ iOS Switch Control

Connectivity SimplyWorks in, Bluetooth out Use with iPad, iPhone, iPad Mini, iPad Pro



Features

- 100% Wireless connectivity for iPad using existing SimplyWorks assets.
- Proportional scanning (using SimplyWorks Joystick).
- Forward and Backward scanning.
- Switch access to iPad via SimplyWorks Switches
- Full-travel keyboard access via SimplyWorks Keyboard.
- Integral button to deploy or hide the on-screen keyboard.
- iBooks mode with page-turner.
- Integral, rechargeable lithium-ion battery via USB lead (supplied).
- 20 metres (64 feet) operating range.

SimplyWorks for iPad allows SimplyWorks products to be used with an iPad or iPhone. It is primarily intended to allow any existing SimplyWorks equipment that customers may have to be used with iPad, rather than forming part of a new system, and was designed in response to customer requests to avoid unnecessary expense in purchasing new switches etc.

Having said that, there may be instances where SimplyWorks for iPad may necessarily form part of a new system. For example, the combination of SimplyWorks Joystick and SimplyWorks for iPad allows the former to connect to an iPad and achieve iOS Switch Control scanning, just like J-Pad. Since SimplyWorks Joystick has a lower operating force and can be mounted, it may be a better choice in certain situations.

Similarly, the combination of SimplyWorks Keyboard and SimplyWorks for iPad avails the user of a big key keyboard on an iPad.

Although iPad never affords the user a conventional cursor, SimplyWorks Joystick, in combination with SimplyWorks for iPad may be used to achieve full iOS Switch Control access. Alternatively one or more SimplyWorks Switches may be used with SimplyWorks for iPad to achieve the same.

If you are considering SimplyWorks for iPad as part of a new system, please contact Pretorian or your local Pretorian dealer to discuss the options.

Did you know?

As with all SimplyWorks receivers, SimplyWorks for iPad can support up to six transmitters at any one time, allowing enormous flexibility in what devices are used with iPad.

Switch2Scan

- ✓ Switch adapted apps
- ✓ Music/Video
- ✓ Camera/Video
- ✓ iOS Voiceover

Connectivity Bluetooth

Use with

iPad, iPhone, iPad Mini, iPad Pro



Features

- Scans using Voiceover
- iBooks® mode with single-click page-turning.
- Manual and automatic scanning modes, with Four Scanning speed options.
- Forward and backward scanning.
- On-Screen keyboard scanning.
- QuickAccess mode.
- Integral button to deploy or hide the on-screen keyboard.
- Integral, rechargeable lithium-ion battery via USB lead (supplied).
- 20 metre (64 feet) operating range.

Switch2Scan is an iOS Voiceover access device and as such is intended for users with visual impairments. It affords the user full scanning access using Voiceover.

Although iOS Switch Control has largely overtaken Voiceover as a scanning switch access technique, the visually impaired can still benefit from using Voiceover and it is for these users that Switch2Scan is intended.

Another specific area where Switch2Scan excels is page turning in iBooks. The unit may be configured to achieve true single-click page turning- both page forward and page back- something which is not possible using Switch Control. In fact this is one of the main reasons that users purchase Switch2Scan.

Press the QuickAccess button and the switches are automatically changed to space, enter, ~1 and ~3 without affecting the switch settings, allowing you quick and easy access to switch adapted apps and iOS Switch Control, should it be required. One more press of QuickAccess and you're back where you were.

If the user is neither visually impaired nor requires one-click access to iBooks page turning, APPLICATOR or iSwitch may be a better choice of product. Please consult with Pretorian or your local Pretorian reseller before purchasing.

Receive Micro

Connectivity

USB (Micro plug into Sync port)

Use with

Android Phones and Tablets

Features

- Directly connects to most Android tablets
- Can be paired with up to six SimplyWorks transmitters
- Does not require driver software
- Supports the entire SimplyWorks range of products
- SimplyWorks receiving range- 10 metre (32')



Another product designed to allow SimplyWorks products to work with tablet devices. Although most Android devices have Bluetooth (allowing them to work with APPLICATOR and iSwitch), Android differs from Apple devices in allowing a cursor on screen, meaning that the SimplyWorks Trackball and Joystick can be used with Android devices as well as SimplyWorks wireless switches, SimplyWorks Keyboard etc. This allows the SimplyWorks transmitters to be used across all platforms, making them even more versatile and even better value!

No drivers or additional apps need to be installed- just plug Receive Micro into the sync port of your Android device and it will begin working. Then pair your SimplyWorks devices with it and use them as you would on a PC or Mac

One word of caution: Not all Android devices are the same. Some support devices on the sync port, others don't. The tablet we recommend is Google Nexus and of course it does support the Receive Micro. Before purchasing a new tablet, please contact Pretorian or their local distributors for advice.

For more information on the huge SimplyWorks wireless range please see page 36.



iPad Output Devices

Until very recently, it wasn't possible to output data from an iPad or iPhone which meant that they couldn't easily be used for environmental control. That changed with the introduction of Bluetooth 4.0 (sometimes called Bluetooth Low Energy). Pretorian was eager to make full use of this new technology and recently introduced iClick and iControl, together with the iClick app, allowing the user to control mains and battery powered appliances respectively.

iClick UK/EU/US

Connectivity

iPhone/iPad via the free of charge iClick app. Or may be used as part of the EnvirON range of environmental controls using the free of charge EnvirON app. Wired switches. Wireless switches such as SimplyWorks Switch 125, Switch 75 or Send. Smooth Talker/Smooth Talker with Levels via toy output (either using a wired or wireless connection)

Use with

iPad 3, iPad Mini, iPad Air, iPad Pro or later.

Will not work with First Generation iPad or iPad 2 due to Bluetooth 4 requirement.

iClick app available free of charge from App Store.

Use for:

Switching one or two mains powered appliances using wired or wireless switches or using an iPhone/iPad- either in a learning environment or as part of a daily living configuration. Also forms part of the EnvirON range- please see page 42.

Features

- Two independently controlled mains sockets.
- UK, EU and US socket versions available.
- Ultra-safe wireless control of electrical appliances.
- Wide range of control modes.
- iClick app available free of charge from App Store.
- Also supports SimplyWorks wireless switches.
- Two 3.5mm switch input sockets for all types of wired switch.
- Interference free operation at up to 20 metres (60') distance.
- US product is ETL Listed.

At last! Now it's possible to control electrical appliances from your iPad without expensive room installations.

iClick takes appliance control to the next level by combining wired and wireless switch access with app access via the iClick app. The app is free of charge and allows many varied configurations including one or two buttons on screen. The buttons may also be replaced with photographs taken from the iPad camera or chosen from an existing gallery, which helps to make an immediate association between the on-screen button and the appliance being controlled (see page 49 for more details of the app).

Simply plug your favourite appliance(s) into iClick and control them from your iPad in the following innovative ways:



- **Direct**-Appliance is powered for as long as the user touches the switch on the iPad screen- a great way to teach cause and effect.
- **Latching**-Touch once for on and again for off.
- **Timed**-One touch turns the device on for a period determined within the app, from as little as 1 second up to 250 minutes.
- **Cooperation**-Requires two users to work together for the device to turn on and off- great for teaching social skills and cooperative play.
- **On/Off**-One switch turns on the device and the other turns it off.

iClick has two sockets that you can control independently and is available with UK, US or EU (Schuko) sockets. (Please enquire for other countries).

The app has many features to make the learning environment fun and effective. For example, choose the colour of each switch or optionally replace the switch with a photograph taken using iPad's built in camera or chosen from the device's existing photo gallery. The app can also be scanned using iOS Switch Control by users who can't use the touch screen.

Because there's no physical connection between the iPad and the iClick or the appliances, the user is afforded the maximum possible level of safety. Additionally, the iClick can be out of sight to prevent distraction.

iClick also fully supports Pretorian SimplyWorks wireless switches and any type of wired switch via its two 3.5mm sockets.

iClick is useful in many different situations, although they can perhaps be categorised two ways:

- **Educational use.** For example, control a food processor in Latch mode to allow a disabled child to make a cake in a domestic science class, or to turn on a piece of equipment in a science class.
- **Daily living.** For example, to turn on a lamp or TV. More products can be found in the EnvirON section of this brochure, see page 42.

Connectivity Bluetooth

Use with

iPad 3, iPad Mini, iPad Air, iPad Pro or later.

Will not work with First Generation iPad or iPad 2 due to Bluetooth 4 requirement.

iClick app available free of charge from App Store.



Features

- Seven control modes selected from the iClick app. Four modes provide independent switch operation; three give cooperative control.
- iClick app available free of charge from App Store.
- Interference free operation at up to 20 metres (60') distance.
- Integral rechargeable battery- simply charge from any USB socket.

The innovative iControl allows you to turn battery toys and other low-voltage appliances on and off wirelessly from your iPad using the free of charge iClick app, available from the App Store.

Simply plug your favourite toy or other battery-operated appliance into iControl and control it from your iPad in the following innovative ways:

- **Direct**-Toy/appliance is powered for as long as the user touches the switch on the iPad screen - a great way to teach cause and effect.
- **Latching**-Touch once for on and again for off.
- **Timed**-One touch turns the device on for a period determined within the app, from as little as 1 second up to 250 minutes.
- **Cooperation**-Requires two users each to touch a switch for the toy to turn on- great for teaching social skills and cooperative play.
- **On/Off**-One switch turns on the toy and the other turns it off.

iControl has two 3.5mm socket to allow the toy or other appliances to be connected.

The app has many features to make the learning environment fun and effective. For example, choose the colour of each switch or optionally replace it with a photograph taken using iPad's built in camera or chosen from the device's existing photo gallery. The app can also be scanned using iOS Switch Control by users who can't use the touch screen.

Because iControl has an integral battery and is controlled wirelessly using Bluetooth, it is highly portable and can be strapped to a moving toy, for example.



Did you know?

You can use iControl to turn on any low voltage device and is not limited just to toys.

Mouse Alternatives

Perhaps the products that Pretorian is best known for- our range is large, innovative and comprehensive.

None of the products require drivers- a crucial point in modern schools since their computer systems are frequently managed by third parties and are 'locked down' to prevent drivers being loaded by teaching staff. Pretorian's mouse alternatives hold all the information that is required in the product itself, so drivers are not necessary and they can be moved from computer to computer and still retain their settings.

Whether your requirement is for a general purpose joystick or a specialist input device for a user with a particular disability, Pretorian has the answer:

	Slimline Joystick	Orbitrack	Optima Joystick	Optima Trackball	SimplyWorks Joystick	SimplyWorks Trackball	n-ABLER Joystick	n-ABLER Trackball	n-ABLER Pro Joystick	n-ABLER Pro Trackball	Ultra Joystick
Trackball				✓		✓		✓		✓	
Joystick	✓		✓		✓		✓		✓		✓
Wireless					✓	✓					
Buttons	2	4	3	3	3	3	5	5	5	5	0
Sockets	2	2	2	2	2	2	2	2	2	2	2
Programmable sockets							✓	✓	✓	✓	✓
Left Click	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓
Right Click	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓
Drag-lock facility	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓
Double-click facility	✓	✓	✓	✓			✓	✓	✓	✓	✓
Dwell click facility							✓	✓	✓	✓	✓
Anti-tremor feature									✓	✓	
Left-handed button facility	✓	✓	✓	✓			✓	✓	✓	✓	
Buzzer	✓	✓	✓	✓	✓		✓	✓	✓	✓	✓
Buzzer disable facility	✓	✓	✓	✓			✓	✓	✓	✓	✓
Selectable cursor speed	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓
Mountable			✓	✓	✓	✓	✓	✓	✓	✓	✓
No drivers required	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓

n-ABLER Joystick and Trackball

Use for
Mouse alternative
connected
to the following
devices:

- ✓ PC
- ✓ Mac
- ✓ Chromebook
- ✓ Tablets with full-sized USB socket

Connectivity
USB
PS/2 via adaptor plug



Dimensions:
235mm x 130mm x 100mm high (joystick)
or 75mm high (trackball).

Palm rest height approx 50mm.

Features

- Available in Joystick or Trackball form.
- Rugged construction and ergonomic design.
- Large footprint for maximum stability.
- Symmetrical design for use with either hand.
- Colour coded buttons mounted sub-flush to prevent accidental activation.
- Double click and latching drag lock buttons
- Cursor Speed Control
- NEW Dwell Click function
- Single axis button for up/down or left/right only cursor movements and scrolling facility.
- Audible (switchable to mute) and visual warnings indicating selection or change of function.
- Easy 'plug and play' installation
- Does not require driver software - ideal for contract managed computer systems
- Three-point fixing for mounting systems.
- Joystick supplied with a choice of three knobs.

Our most popular mouse alternative- n-ABLER has it all.

n-ABLER is especially suitable for improving access for children and young people with limited motor skills, learning difficulties and for those whose work entails long periods of computer use.

Both the Joystick and Trackball versions require only a light touch of the stick or ball, which makes for easy navigation, selection and manipulation of objects on the computer screen.

n-ABLER emulates a computer mouse but, with fingertip control and the need for only minimal hand movement, reduces wrist and elbow fatigue, requires far less effort and is less tiring. The symmetrical design enables users to work with either hand without having to angle the wrist, and the unit can also be configured for 'left-handed' operation. Its large, integrated hand support/palm rest makes work posture more relaxed and less strained.

For users with limited movement, double-clicking and click-and-drag can be particularly difficult- so n-ABLER provides buttons to perform these actions for you.

The cursor speed may be selected using a button on the rear of the unit which, together with the single-axis button, can be used to tailor the cursor movement to the user's exact needs.

n-ABLER is switch adapted and the two 3.5mm sockets provided can be programmed to function as any of the six built-in buttons (including speed).

Alternatively, for users who find switch use difficult, a Dwell Click function can be programmed to allow n-ABLER to be used entirely without switches. This is programmable for both the dwell period and the click function- e.g. left click, double click etc.

An industry-standard three-point fixing system is provided to allow the unit to be mounted where necessary and the unit even allows the direction of cursor movement to be changed so that the unit may be mounted in any orientation.

Did you know?

Left and Right click may be swapped around for left-handed users or when the unit is mounted. Like all its settings, this is retained in memory and recalled whenever the computer is restarted or the n-ABLER is moved to another computer.

Three knobs are supplied with the Joystick for added flexibility:

- Acorn knob for general purpose use
- T-Bar knob for users who need to grip the stick
- Large diameter foam ball for users who need to push the stick to achieve cursor movement. Also allows the stick to be moved by wrist or forearm, for example.

n-ABLER Pro Joystick and Trackball

Dimensions:

235mm x 130mm x 100mm high (joystick)
or 75mm high (trackball).

Palm rest height approx 50mm.



Use for
Mouse alternative
connected
to the following
devices:

- ✓ **PC**
- ✓ **Mac**
- ✓ **Chromebook**
- ✓ **Tablets with full-sized USB socket**

Connectivity
USB
PS/2 via adaptor plug

Building on the huge success of n-ABLER, n-ABLER Pro was introduced to satisfy the needs of older users. We observed that once users became teenagers, they would tend not to want to use n-ABLER since they associate the brightly coloured buttons with children's products. Similarly, ageing users generally did not want to use a product which was clearly meant for children, yet their needs are in many ways similar to younger users.

In answer to this, we launched n-ABLER Pro. It has a modern silver-over-black colour scheme and black buttons with white legends, which are great for users with visual impairments.

Because ageing users can sometimes exhibit tremors, we also built in a unique anti-tremor facility which filters out the tremors, leaving the underlying movement of the joystick or trackball. There are four selectable levels of anti-tremor filtering, and the feature may be turned off for users who have no need of it.

Features

- Available in Joystick or Trackball form.
- Modern silver-over-black colour scheme.
- Anti-tremor feature.
- NEW- Dwell Clicker feature.
- High-contrast white legends on black buttons for visually impaired users.
- Large footprint and rugged construction.
- Double click and latching drag lock buttons
- Cursor Speed Control
- Does not require driver software - ideal for contract managed computer systems
- Three-point fixing for mounting systems.
- Joystick supplied with a choice of three knobs.

Did you know?

Dwell Clicker can be made to click, double-click or drag the item on screen?

Dwell Clicker is a new feature recently incorporated into n-ABLER Pro, allowing users to achieve completely switch-free selection of items on screen. Simply allow the cursor to dwell over the item in question for a pre-determined (but selectable) period and n-ABLER Pro will click it for you!

Of course, all the great features that you already associate with n-ABLER such as cursor speed settings, drag-lock, double-click, programmable switch adaptation and driver-free operation are still available in n-ABLER Pro.

Optima Joystick and Trackball

Use for

Mouse alternative connected to the following devices:

- ✓ PC
- ✓ Mac
- ✓ Chromebook
- ✓ Tablets with full-sized USB socket

Connectivity

USB

PS/2 via adaptor plug



Dimensions:

180 x 102 x 112mm high (joystick)
or 75mm high (trackball).

Palm rest height approx 35mm.

Features

- Robust Construction and Ergonomic Design.
- Light touch Trackball or Joystick movement
- Precise tracking and cursor control.
- Four Cursor speed settings (With Audible Alert).
- Double click option
- Left handed button option
- Buzzer may be turned off if not required
- Low profile providing a natural hand rest for comfortable operation.
- Left/Right and Drag Lock buttons.
- Colour coded buttons mounted sub-flush to prevent accidental activation.
- Sockets to operate Left/Right click from remote switches.
- Easy 'plug and play' installation.
- Does not require driver software - ideal for contract managed computer systems
- Industry standard threaded mounting holes.



Optima Joystick and Trackball are compact, desktop mouse alternatives that do not require fine motor skills and are suitable for a wide spectrum of computer users.

They are specifically designed to respond to the lightest touch to give accurate cursor navigation and precise targeting of objects on the computer screen while occupying the minimum amount of desk space.

Optima also features a low profile, providing a natural hand rest for comfortable operation, and will work with USB and PS/2 compatible computers of all types. As with all of Pretorian's mouse alternatives, no drivers need be loaded onto the computer.

There are four speed settings and the centre button gives the user access to a 'drag' feature, allowing the left click to be engaged for an extended period, for example when moving an icon on screen. Additionally, the unit is switch adapted via two 3.5mm sockets, giving the same switch functions as the red and yellow buttons.

Three knobs are supplied with the Optima Joystick for added flexibility:

- Acorn knob for general purpose use
- T-Bar knob for users who need to grip the stick
- Large diameter foam ball for users who need to push the stick to achieve cursor movement. Also allows the stick to be moved by wrist or forearm, for example.



SimplyWorks Wireless Joystick and Trackball

Use for

Mouse alternative connected to the following devices:

- ✓ PC
- ✓ Mac
- ✓ Chromebook
- ✓ Windows tablets with full-sized USB socket
- ✓ Android tablets via Receive Micro
- ✓ iPhone/iPad via SimplyWorks for iPad

Connectivity

Wireless to any SimplyWorks receiver such as SimplyWorks Receive or SimplyWorks Control.



Dimensions:
180 x 102 x 112mm
high (joystick)
or 75mm high (trackball).

Palm rest height
approx 35mm.

Features

- Robust Construction and Ergonomic Design.
- Wireless SimplyWorks connection with a range of at least 10m (30').
- Light touch Trackball or Joystick movement
- Four Cursor speed settings (With Audible Alert).
- Low profile providing a natural hand rest for comfortable operation.
- Left/Right and Drag Lock buttons.
- Colour coded buttons mounted sub-flush to prevent accidental activation.
- Easy 'plug and play' installation.
- Industry standard threaded mounting holes.

Did you know?

When paired with a SimplyWorks Control for toy control, or an Energise/iClick for mains appliance control, SimplyWorks Joystick becomes a 'wobble switch'.

SimplyWorks Joystick and Trackball are very similar to Optima, but wireless! Using Pretorian's well-proven and highly reliable SimplyWorks wireless system, pairing with the receiver is simplicity itself- hence the name!

Please refer to the Optima Joystick and Trackball section of this brochure for full details of the available features and to the SimplyWorks section for details on the enormous flexibility of the SimplyWorks system.

Optimax Joystick and Trackball

Use for

Mouse alternative connected to the following devices:

- ✓ PC
- ✓ Mac
- ✓ Chromebook
- ✓ Windows tablets with full-sized USB socket
- ✓ Android tablets via Receive Micro
- ✓ iPhone/iPad via SimplyWorks for iPad

Identical to the SimplyWorks Joystick and Trackball but shipped with a simple point-to-point receiver which supports only one transmitter. Feature set is identical to the SimplyWorks Joystick and Trackball. Only for purchase in cost sensitive installations as the SimplyWorks equivalents offer greater functionality for just a modest price increment.



Slimline Joystick

Dimensions:
145 x 90 x 80mm high
Palm rest height 22mm.

Use for
Computer access for younger users and users with small hands, connected to the following devices:

- ✓ PC
- ✓ Mac
- ✓ Chromebook
- ✓ Tablets with full-sized USB socket

Connectivity
USB



Features

- Very small footprint.
- Height of palm rest from desk just 22mm.
- USB connection- compatible with PC, Mac, Chromebook and tablet devices that support external mice.
- Does not require any driver software to be loaded onto host computer- ideal for managed computer systems often used in schools.
- Speed settings and button functions retained if the unit is unplugged or powered down.
- Drag lock LED
- Ships with T-bar handle and large diameter sponge ball.

Perfect for smaller hands, Slimline Joystick has both a small footprint and a low profile, allowing it to be used comfortably for extended periods by younger users.

As with all Pretorian input devices, a high degree of programmability is built in. Four cursor speed settings allow the unit to be configured for the user's precise needs. Each of the two touch sensitive buttons may be independently programmed to be left click, right click, double-click or drag-lock. All settings are saved in non-volatile memory and automatically recalled at power on.

Two sockets allow external switches to replace the touch buttons where required. Includes audible feedback for the touch buttons, which may be turned off if not required.

Although the touch buttons are a great benefit for many users who have little forearm strength and who have difficulty in pressing conventional buttons and switches they can, in some circumstances, be inconvenient- for example if the user needs to lean across them to access the joystick. For this reason they may be disabled on an individual basis simply by plugging any wired switch into the corresponding socket.

Did you know?

Slimline Joystick is the lowest profile joystick on the market.

Ultra Joystick

Use for
Computer access for wheelchair users or users who require their joystick to be mounted for head or chin use, for example, connected to the following devices:

- ✓ PC
- ✓ Mac
- ✓ Chromebook
- ✓ Tablets with full-sized USB socket

Connectivity
USB



Dimensions:
150 x 50 x 110mm high

Features

- Extremely rugged all metal construction
- Industry standard threaded holes make the unit ideal for mounting systems
- Two programmable sockets allow the use of any type of switch
- Dwell Click function offers the possibility of using without any switches.
- Programmable speed setting.
- No drivers required

A very compact, robust USB joystick which is ideal for use with mounting systems, particularly when operated by the user's head or chin. The body of the joystick, including the threaded mounting holes, are made entirely of metal, making the unit extremely robust.

Did you know?

Ultra Joystick is designed to be mounted - the small body dimensions and external switches making it ideal for use with wheelchairs.

Two 3.5mm sockets allow any type of switch to be used along with Ultra Joystick and the function of each of the switches may be programmed to be any combination of left click, right click, double click or drag. Alternatively, for users who find switch use difficult, a Dwell Click function can be programmed to allow Ultra Joystick to be used entirely without switches.

Four cursor speed settings are available and all settings are stored in non-volatile memory and are recalled each time the unit is powered on.

As with all Pretorian USB products, no drivers are required making installation straightforward, especially with agency managed computer systems. Ultra Joystick ships with a variety of interchangeable knobs.

Orbitrack

Use for

Mouse alternative for users with low forearm strength, connected to the following devices:

- ✓ PC
- ✓ Mac
- ✓ Chromebook
- ✓ Tablets with full-sized USB socket

Connectivity

USB, PS/2 via adaptor plug



Dimensions:
225 x 140 x 50 high (max).

Palm rest height approx 30mm.

Features

- Large, 50mm touch-ring requiring minimal movement for full cursor control.
- Soft touch operation (no pressure is required)
- Ultra reliable with no moving/wearing mechanical parts.
- Sealed against the ingress of fluids.
- Ergonomic design with a large, sloped palm rest for comfortable wrist operation.
- Touch sensitive, colour coded buttons (Left Click, Right Click, Drag Lock and Double Click)
- Does not require driver software - ideal for contract managed computer systems

Requiring no hand or wrist movement, Orbitrack represents a significant advance in computer input technology and is suitable for computer users with motor skill difficulties and movement impairment. Unlike a mouse, trackball or joystick, no hand or wrist movement is necessary and unlike a touch pad, the cursor does not have to be 'driven' around the screen by constant finger movement.

This makes the unit perfect for users with conditions such as Muscular Dystrophy, Motor Neurone Disease, Carpal Tunnel Syndrome or indeed any condition that results in forearm strength issues.

Did you know?

You can disable the touch-sensitive left and right click by plugging external switches into the 3.5mm sockets. This is useful since certain users may need to lean across these buttons to gain access to the touch-ring.

The central white 'dot' inside the touch-ring is a finger rest and when touched, does not result in cursor movement. However, when the user moves his/her finger onto the touch-ring, the cursor moves in the direction indicated by the finger's position on the ring. In other words, to move the cursor into the top right corner of the screen, touch the grey ring at the 2 o'clock position. Cursor movement will continue until the finger is either removed or moved back to the central white dot.

Concentric touch-sensitive buttons are provided for left click, right click, double-click and drag, which may be turned off in favour of external switches.. As with all other Pretorian mouse alternatives, Orbitrack is switch adapted (left and right click), has cursor speed settings and doesn't require a driver be loaded on the host computer.

Orbitrack also has a unique SmartTrack facility, which calculates the speed of the cursor according to recent movements, i.e. it 'learns' what you are doing and works out the optimum speed setting for you.

Track-It!



- ✓ PC
- ✓ Mac
- ✓ Chromebook
- ✓ Tablets with full-sized USB socket

Connectivity

USB

PS/2 via adaptor plug

A further press of the switch will then perform that operation, whether it be cursor movement or a switch operation. You can carry out the operation for any length of time but after a period of non-use (Dwell Time), scanning re-commences.

Where the user has the dexterity for two-switch use, scanning is performed manually using one switch and the currently highlighted operation carried out with the other.

The third and fourth sockets can provide separate switch access to left click, right click, double-click or drag where required.

Track-It! is a specialist product and won't suit all users. Using it requires patience. However, for certain users, it can provide cursor access where all other assistive devices fail and as such it is a valuable product in the assessor's arsenal.

Features

- Full mouse functionality from a single switch.
- Four switch sockets available for users able to operate more than one switch.
- Clock-face array from which the direction of cursor travel is selected.
- Selectable 4 or 8 directions of travel, each illuminated by an LED.
- Cursor speed settings and 8 Scan Rate and Dwell Time settings.
- Mouse left/right click, double click and drag lock buttons selectable using either the single switch or the additional switch sockets provided.
- Mounting stand for positioning close to the computer screen.
- Variable scanning time settings for the clock-face LED array and mouse click buttons.
- Does not require driver software - ideal for contract managed computer systems

Track-IT! is designed for users with motor skill difficulties, particularly those who find conventional access impractical. It has a number of programmable options allowing the user to personalise the unit for their particular needs.

In essence, it is a scanning mouse. The direction in which the cursor travels can easily be selected using the 'clock-face' LED array on the front of the device. If set to single switch operation, the unit auto-scans around the clock face and then along the four switch settings, then back to the 12 o'clock position, and so on. Once the LED lights for the required operation, the user first presses the switch to stop scanning.



Switch Access Technology

Switches are ubiquitous in Assistive Technology with good reason- they are the main-stay of almost every aspect of our business. A good quality, reliable switch is a must for busy therapists because an unreliable switch can cause unnecessary frustration and delays in provision.

Pretorian understands these requirements very well and has a range of switches which are as reliable as they are flexible. Choose from wired or wireless switches according to the situation.

Wired Switches

Smoothie 125/75

Connectivity
3.5mm jack



See Page 26



Features

- Operates over the whole switch area.
- Extremely low profile and operating force.
- Angled towards the user.
- Tactile feedback.
- Switch top cannot be removed by user
- prevents distraction
(coloured tops can be changed but only with tools).
- Can be mounted via industry-standard fixing holes (Smoothie 125 only)



Smoothie 125 and Smoothie 75 are 125mm (5") and 75mm (3") diameter wired switches, terminating in an industry-standard 3.5mm jack.

Both switches have an extremely low profile and are both angled towards the user, meaning that the operating surface is only 10mm above the desk at its lowest. The switches do not have a flanged base, allowing unrestricted access to the operating surface.

Users who are unable to rest their hand on the switch without operating it may instead rest their hand on the desk in front of the unit and simply 'roll' it towards the switch when required.

Available Colours



Did you know?

Unlike some switches on the market, Smoothie switch tops cannot be removed without a screwdriver, so there's no risk of the learner removing them.

All other trademarks are the property of their respective owners.

Wireless Switches

SimplyWorks Switch 125/75

Connectivity

Wireless to any SimplyWorks receiver such as SimplyWorks Receive or SimplyWorks Control.



Features

- Works with any SimplyWorks receiver for computer access, toy and appliance control.
- Low operating force.
- Operates over the whole switch area.
- Extremely low-profile.
- Switch top cannot be removed by user - prevents distraction
(coloured tops can be changed only with tools).
- 10 metre (32') operating range.
- Integrated LED display to allow switch function to be selected when used for computer access.
- Automatic power saving mode - no on/off switch
- Long battery life.
- Can be mounted via industry-standard fixing holes (Switch 125 only)

Available Colours



Did you know?

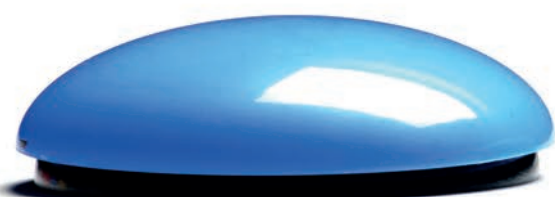
You can purchase two SimplyWorks Switch 75s together with a Receive:2 as a very competitively priced bundle for PC/Mac/Chromebook use. Please refer to page 21 for more details.

SimplyWorks Switch 125 and SimplyWorks Switch 75 are 125mm (5") and 75mm (3") diameter wireless switches and may be used with any SimplyWorks receiver (see SimplyWorks section of this brochure).

As part of the ever-growing SimplyWorks range, these switches can be used for an enormous variety of purposes. When paired with a SimplyWorks Receive on a computer, they can be used as left-click, right-click, space or enter, for example. Alternatively, when paired with Control, Control Pro, iClick or Energise they can be used to control a toy or mains appliance. Or, when paired with Smooth Talker, they can become messaging switches. The choices are almost endless. Please refer to the SimplyWorks section of this brochure for full details.

Pairing these switches with a receiver is simplicity itself and setting the switch function is just as easy.

Both switches have an extremely low profile and are both angled towards the user, meaning that the operating surface is only 10mm above the desk at its lowest. The switches do not have a flanged base, allowing unrestricted access to the operating surface.



Use for

Switch access to computer platforms with USB sockets without the need of a switch box.

Switch access for users with tremors.

Connect to the following devices:

- ✓ PC
- ✓ Mac
- ✓ Chromebook
- ✓ Tablets with full-sized USB socket

**Connectivity**
USB**Available Colours**

USB Switch is, quite simply, a switch with a built-in switch box! Simply plug USB Switch into any available USB port and it will work just as you expect it to. As with all Pretorian products, no driver disks are required to allow USB Switch to work- the computer will build its own driver when the product is first plugged in, making it ideal for contract managed computer systems.

Then select the switch function you require using the simple display on the reverse of the unit and the product is ready to use. The settings have been carefully chosen to work with all available AT software and apps.

Two additional 3.5mm sockets are provided on the rear of the unit to allow more switches to be connected and the function of each one may be separately selected.

USB Switch gets its power straight from the USB socket so there are no batteries required in this product.

But USB Switch's features don't end there- it is also the only switch on the market with settings to allow adaptation for tremors, poor forearm strength and other motor deficits. If you don't need these features, there's nothing to do - the unit will behave as a standard switch. If, on the other hand, the user will benefit from these features, Pretorian recommends first reading the Switch Filtering White Paper, available on our website. This will guide you through the various settings in USB Switch according to the user's precise needs.

Did you know?

USB Switch has settings to allow it to be adapted to users with all types of motor deficit, including tremors and poor forearm strength.

Features

- 75mm Switch with built in USB interface
- Two additional 3.5mm switch sockets, each separately programmable for function.
- Switch function programmable via integral LED display.
- Advanced settings to allow adaptation for tremors, ataxia, chorea and other motor deficits.
- Low profile and low operating force
- Does not require driver software - ideal for contract managed computer systems



SimplyWorks Switch Set

Use for

Cost effective switch access for computer platforms with USB socket

- ✓ PC
- ✓ Mac
- ✓ Chromebook
- ✓ Tablets with full-sized USB socket

Connectivity USB



Available Colours



(red and yellow switches included)

Features

- A low-cost bundle of two 75mm SimplyWorks wireless switches and a Receive:2 USB receiver
- Batteries included for both switches.

For more information on the huge SimplyWorks wireless range please see page 36.

SimplyWorks Switch Set is a low cost bundle comprising two 75mm wireless switches and one Receive:2 USB Receiver. Simply plug Receive:2 into an available USB socket on your device and insert the provided batteries in the wireless switches, pair them up and you're all set.

A simple display on the base of the unit allows the function of each switch to be selected from a list of options which have been carefully chosen to ensure compatibility with all popular AT software and apps. Typically they are set to Space and Enter for use with switch adapted apps, for example.

SimplyWorks Switch Set is a great way of getting familiar with the SimplyWorks concept and of course when you want to purchase other products in the SimplyWorks range (which we're sure you will), the individual components in the Switch Set are fully compatible with the rest of the range.

For more information on the switches and receiver, please refer to pages 19 and 40 of this catalogue.

Test-IT

Use for

Testing wired switches

Features

- Tests all switches with a 3.5mm jack plug.
- Lightweight and portable.
- Battery operated with an extremely long battery life.

Test-IT provides a quick and easy way to test your switches before beginning work with them. The unit is very simple to operate: plug the switch into the socket and the orange LED lights to indicate that the power is on. Press the switch and the green LED lights to indicate a fully functional switch.



Switch Interfaces

Simple Switch Interface

Use for

Simple wired switch access to computers with full-sized USB sockets

- ✓ PC
- ✓ Mac
- ✓ Chromebook
- ✓ Tablets with full-sized USB socket*

* For tablets with micro-USB sockets, see the alternative Simple Switch Interface Micro.

Connectivity USB



Simple Switch Interface is a simple, convenient and cost-effective way to connect up to two switches to your computer to access most assistive technology software.

To provide switch access to most AT software, Space and Enter is often all that you will need. However, if you are using the product as a method of providing mouse switches, it may be set to Left and Right click. Alternatively, access to Clicker from Crick† may be provided by selecting F7/F8 and similarly, access to The Grid from Smartbox† can be gained by using Gamepad 1 and 2.

Whatever the appropriate switch functions, Simple Switch Interface retains the settings even when powered down so it will always be set the way you want it.

As with all Pretorian products, no drivers are required, making it ideal for installation on computers which are under maintenance contracts.

† Trademarks are the property of their respective owners and are acknowledged.

Features

- Supports Space/Enter, Left Click/ Right Click, F7/F8 (for Clicker†) and Gamepad 1 and 2 (for The Grid†)
- Retains mode setting even when powered down
- Does not require drivers
- Two 3.5mm sockets to connect your own choice of switches



Simple Switch Interface Micro

Just like Simple Switch Interface but with a micro-USB plug instead of full-sized USB. This product is primarily for use with Android tablets with micro-USB sync ports. All of the features are the same, so please refer to Simple Switch Interface (above) for a full description.

SimplyWorks Send

Use for

Wirelessly connecting any kind of wired switch to any SimplyWorks receiver to achieve computer access, toy control or appliance control.

Connectivity

Wireless to any SimplyWorks receiver such as Receive, Control or Energise



Features

- Works with any SimplyWorks receiver for computer access, toy control, appliance control and access to Pretorian's AAC devices.
- Single 3.5mm jack socket input from any switch.
- Identical functions to SimplyWorks Switch 125 but allowing other types of switch to be used such as foot switches, sip/puff switches etc.
- 10 metre operating range.
- Integrated LED display to allow switch function to be selected when used for computer access.
- Automatic power saving mode - no on/off switch.
- Long battery life.

Did you know?

You can use any switch with SimplyWorks Send to wirelessly control a mains powered appliance by pairing it with SimplyWorks Energise.

SimplyWorks Send is very similar to SimplyWorks Switches, just not built into a switch! Instead, you can use it to make any switch part of a SimplyWorks configuration, allowing foot switches, pillow switches, sip/puff and other, less common switches to become wireless. Simply plug the switch into the 3.5mm socket on Send, pair it to the SimplyWorks receiver you'd like it to work with and it's now wireless.

If you are using the switch to achieve computer access, you will also need to set the function of the switch- for example you may want to make it Left Click or Space. This can be achieved using the simple display and keypad on Send.

The unit requires 2 x AAA batteries which will give many months of use. As usual with Pretorian products, no on/off switch is provided - the unit automatically goes to sleep after a period of inactivity to conserve battery life.



For more information on the huge SimplyWorks wireless range please see page 36.



Use for

Wirelessly connecting multiple switches to any SimplyWorks receiver to achieve computer access, toy control or appliance control.



Connectivity

Wireless to any SimplyWorks receiver such as Receive, Control or Energise

SimplyWorks Send-6 allows up to six wired switches to be used with a single SimplyWorks receiver. You can use it as a method of making an array of switches part of a SimplyWorks configuration, allowing foot switches, pillow switches, sip/puff and other, similar switches to become wireless. Simply plug the switches into the 3.5mm socket on Send-6 pair it to the SimplyWorks receiver you'd like it to work with and they are now wireless.

Because you only need to pair once with the receiver, set-up is quick and straightforward, making Send-6 an ideal product for wirelessly connecting an array of switches on a wheelchair.

If you are using the switches to achieve computer access, you will also need to set their individual functions. This can be achieved using the simple display and keypad on Send-6.

Send-6 also has a facility to allow the switches to function as a mouse. Four of the switches work as cursor up, down, left and right and the remaining two become Left Click and Right Click. You can even choose the speed of the cursor! Pair Send-6 with Receive or Receive:2 to take advantage of this facility.

The unit requires 2 x AAA batteries which will give many months of use. As usual with Pretorian products, no on/off switch is provided - the unit automatically goes to sleep after a period of inactivity to conserve battery life.

Did you know?

Send-6 is an ideal way to wirelessly connect multiple switches on a wheelchair to a computer and requires only one pairing operation, making it very quick and straightforward.

Features

- Works with any SimplyWorks receiver for computer access, toy control, appliance control and access to Pretorian's AAC devices.
- Six 3.5mm jack sockets.
- 10 metre operating range.
- Integrated LED display to allow switch function to be selected when used for computer access.
- Automatic power saving mode - no on/off switch.
- Long battery life.



For more information on the huge SimplyWorks wireless range please see page 36.

Use for
Routing one switch to multiple
devices

Connectivity
One or two switch inputs
Up to four switch outputs



Features

- Routes a single switch to up to four devices
- Use an extended press of the main switch or a second switch to move between devices.
- Selectable dwell time when using extended presses.
- Powered from rechargeable battery or external power supply.
- Fail-safe connection to device 1 when the battery is flat or power fails.
- Lock facility allows the keypad to be locked once the settings have been made.

Freedom is a four-channel device switcher that allows one switch to be routed to up to four devices, allowing a disabled user to select for him/herself which device the switch is to be used with at any point in time. Selecting the device can be achieved either by an extended press of the input switch, or by momentarily pressing a secondary select switch (where the user has the motor capabilities to operate two switches). Where an extended press is to be used, the duration of the press may be programmed from the keypad.

Devices may be of any form, provided they have a conventional switch input via a 3.5mm jack socket. Typical configurations might comprise a communicator, a mobile telephone and a tablet computer. Some devices (for example the phone and tablet in the above example) may require additional equipment to allow connectivity, such as the APPLICATOR from Pretorian.

The number of devices present may be programmed into the unit, so that unused devices are not included when moving from device to device.

Furthermore, once all the necessary settings have been made, the keypad may be locked, preventing further changes. This allows a rehabilitation centre to configure the unit and then send it to the client without fear of the settings being changed, for example.

Freedom operates from a rechargeable lithium battery which is charged via a standard USB cable, or alternatively the unit may be permanently powered using a power pack or wheelchair auxiliary port. When using the battery, the unit will operate for several weeks without ever needing to manually turn off the power. This is vital since the user may not be able to turn off the power.

Both audible and visible low battery indicators are provided to prompt the user to recharge and if the battery should become exhausted, the unit 'fails safe' by routing the main switch to device 1, allowing the switch still to be used on the most important device. If the device is, for example, a warden call system or a mobile phone, help may then be summoned to rectify the situation.

All four outputs are fully isolated so the unit can work with devices which do not share the same ground/ earth connection. Freedom is supplied with a charging cable and four device connection cables.



Gaming is a big part of many disabled people's lives and its importance should not be underestimated. It is perhaps easy to dismiss it as frivolous, but for many it provides purpose and can have a profoundly positive effect on their lives.

Microsoft recently made a significant gesture by introducing the Xbox Adaptive Controller, which allows multiple wired switches and up to two USB devices to be connected and individually configured.

For its part, Pretorian has also risen to the challenge of helping disabled gamers by introducing new features into some of its joysticks to allow them to be used with Xbox Adaptive Controller. At the time of going to press, the Optima Joystick has been modified to allow it to be switched from its standard 'mouse equivalent' functionality to a new 'gamepad equivalent' setting, allowing it to be plugged directly into Xbox Adaptive Controller.

Of course all of Pretorian's Smoothie switches can also be used directly with Xbox Adaptive Controller.

In future, we will be adding the gamepad equivalent feature into more of our joysticks and introducing other products specifically for Xbox, so please look on our website for more information.



Communicators/AAC Devices

Smooth Talker II

Use for

Communication aid for non-verbal users and users who need help with speech.

Connectivity

Stand-alone product, although it is a SimplyWorks transmitter and receiver too.

Available Colours



Features

- A huge eight minutes of recording and playback time.
- Digital amplifier with twin speakers for superior sound quality.
- Built in rechargeable lithium battery- charge from a USB socket. Can be used while charging.
- Sequential, Random, Random (no repeats), Choice, Choice Progression, Converse, Auditory Prompt and Question/Answer modes.
- Input socket for attaching a wired, external switch, or alternatively use a SimplyWorks wireless switch.
- Wireless toy activation using SimplyWorks toy controllers, or use the 3.5mm toy jack.
- Configurable to activate a mains-powered appliance in conjunction with Energise or iClick mains controllers.
- Built-in symbol holder.
- Large (125mm), low profile, switch activation area.
- Switch top cannot be removed by user - prevents distraction (coloured tops can be changed only with tools).

Smooth Talker is one of Pretorian's flagship products and is surely the most versatile simple AAC device on the market. Recently redesigned to include even more features, a huge 8 minutes of recording time and superior sound quality, it also now has a built-in rechargeable lithium battery which will give many hours of use between charges (and, importantly, may still be used while recharging), saving you money on batteries.

Whereas other manufacturers sell different products to fulfil each particular AAC requirement, Pretorian's philosophy is to fulfil all your requirements in a single product, saving you time and money.

Did you know?

You can pair Smooth Talker with Energise or iClick to allow individual messages to turn on mains appliances such as a lamp or music player. Use as a reward for completing a task or as a method of verbally instructing users how to complete a task.

Perhaps the feature that makes Smooth Talker so popular is the choice of playback modes. Choose from:

- **Sequential**- play the messages in sequence, beginning with the first.
- **Random**- plays a random message and is great as a speaking dice, for example.
- **Random (no repeats)**. A new mode which randomly plays every message exactly once before starting over. Perfect for choosing who goes next in a group activity- nobody gets missed out and nobody gets two goes!
- **Choice**- requires two switches and is used to allow the user to exercise a choice between two items or concepts. The second switch may be wired or wireless.
- **Choice Progression**- Choose between multiple pairs of items or concepts, for example choosing menu items.
- **Converse**- a truly unique feature that has come to define Smooth Talker. Requires two switches and allows two users to conduct a two-way conversation without fear that they will get out of sequence.
- **Auditory Prompt**. Use the second switch to choose a message by searching through them quickly, and at low volume. Then play back the chosen message using the main switch at normal volume.
- **Question/Answer**. Record your messages as Q and A pairs and then this mode allows the question and answer to be repeated multiple times before moving on, to allow reiteration and reinforcement.

Toy output can be added to any message and may be chosen on a message by message basis as it's recorded. Although a toy socket is provided, Smooth Talker is a SimplyWorks device and so can be paired with a SimplyWorks toy controller such as Control or Control Pro, or can be used to turn on an appliance by pairing with Energise or iClick.

A further socket is provided for a second switch and is used in Choice, Converse, Auditory Prompt and Question/Answer modes, or may simply be used instead of the main switch in Sequential or either of the Random modes. Because Smooth Talker is a SimplyWorks device, it may be paired with a wireless switch too.

Uniquely, Smooth Talker has the facility to add messages to your existing recordings without needing to erase what you have previously recorded.

Smooth Talker is as simple or as complex as you need it to be- the choice is yours. There are some great resources online, such as videos and worksheets, so please take a look at our website to see the benefits that Smooth Talker can bring to AAC.

Smooth Talker II with Levels

Use for

Communication aid for non-verbal users and users who need help with speech.

Connectivity

Stand-alone product, although it is a SimplyWorks transmitter and receiver too.

Available Colours



Features

- Five Levels.
- A huge 8 minutes of recording and playback time.
- Built in rechargeable lithium battery- charge from a USB socket. Can be used while charging.
- Eight playback modes.
- Digital amplifier and twin speakers for superior sound quality.
- Input socket for external switch (or use SimplyWorks wireless switch)
- Output socket for external toy/ appliance control (or use SimplyWorks toy/ appliance controllers).
- Built-in symbol holder
- Large (125mm) low profile switch activation area.

We just made the best better still! All of the features of the Smooth Talker II but now with 5 adaptive levels. The advanced memory management features in the new Smooth Talker with levels allocates memory as it's used, meaning that you can have a different amount of recording time on each level to meet your exact needs. The only limit is a massive 8 minutes, spread across the five levels. So, for example, you can have four minutes of messages on level 1, and one minute on each of the other levels if you wish, or any other combination that adds up to 8 minutes. Memory allocation takes place automatically with no intervention by the user.

Whereas other manufacturers sell different products to fulfil each particular AAC requirement, Pretorian's philosophy is to fulfil all your requirements in a single product, saving you time and money.

Did you know?

Both Smooth Talker II and Smooth Talker with Levels can be paired with Kinetic for SimplyWorks to become a talking dice! Place Kinetic in a large foam dice and every time you turn it to a new face, Smooth Talker will say the number, or some other message appropriate to what's on the face of the dice!

Perhaps the feature that makes Smooth Talker with Levels so popular is the choice of playback modes. Choose from:

- **Sequential**- play the messages in sequence, beginning with the first.
- **Random**- plays a random message and is great as a speaking dice, for example.
- **Random (no repeats)**. A new mode which randomly plays every message exactly once before starting over. Perfect for choosing who goes next in a group activity- nobody gets missed out and nobody gets two goes!
- **Choice**- requires two switches and is used to allow the user to exercise a choice between two items or concepts. The second switch may be wired or wireless.
- **Choice Progression**- Choose between multiple pairs of items or concepts, for example choosing menu items.
- **Converse**- a truly unique feature that has come to define Smooth Talker Smooth Talker with Levels. Requires two switches and allows two users to conduct a two-way conversation without fear that they will get out of sequence.
- **Auditory Prompt**. Use the second switch to choose a message by searching through them quickly, and at low volume. Then play back the chosen message using the main switch at normal volume.
- **Question/Answer**. Record your messages as Q and A pairs and then this mode allows the question and answer to be repeated multiple times before moving on, to allow reiteration and reinforcement.

Toy output can be added to any message and may be chosen on a message by message basis as it's recorded. Although a toy socket is provided, Smooth Talker with Levels is a SimplyWorks device and so can be paired with a SimplyWorks toy controller such as Control or Control Pro, or can be used to turn on an appliance by pairing with Energise or iClick.

A further socket is provided for a second switch and is used in Choice, Converse, Auditory Prompt and Question/Answer modes, or may simply be used instead of the main switch in Sequential or either of the Random modes. Because Smooth Talker with Levels is a SimplyWorks device, it may be paired with a wireless switch too.

Uniquely, Smooth Talker with Levels has the facility to add messages to your existing recordings without needing to erase what you have previously recorded.

Smooth Talker with Levels is as simple or as complex as you need it to be- the choice is yours. There are some great resources online, such as videos and worksheets, so please take a look at our website to see the benefits that Smooth Talker with Levels can bring to AAC.

Toy Control

SimplyWorks Control

Use for

Wirelessly controlling a toy or other low voltage, switch adapted appliance.

Connectivity

Wireless from any SimplyWorks switch such as Switch 125, Switch 75 or Smooth Talker.



Features

- Works with any SimplyWorks transmitter to control battery operated toys or other low voltage appliances.
- Allows up to six wireless switches to be paired simultaneously to allow co-operative use.
- Choice of Direct, Latched, Timed (seconds) and Timed (minutes) modes of operation.
- Selectable time periods in Timed modes.
- Single 3.5mm jack plug output via supplied lead.
- Small enough to strap to a battery operated toy.
- 10 Metre operating range.
- Automatic power saving mode - no on/off switch.
- Long battery life.

Did you know?

A timed output can always be cancelled by pressing the Mode button?



SimplyWorks Control is a single channel controller for battery operated toys and appliances. Light weight and small enough to be fastened to a toy, the unit has an operating range of 10 metres and features the following modes:

- Direct (toy activates for as long as the switch is pressed)
- Latched (press the switch once for on and again for off)
- Timed Seconds
- Timed Minutes

When a timed output is selected, the time period is set using a string of LEDs.

The unit requires 2 x AAA batteries and will operate for many months without the need to replace them. As usual with Pretorian products, there's no on/off switch- the unit powers down automatically after a period of inactivity. Just press any button to wake it up again.

SimplyWorks Control Pro

Use for

Controlling one or two toys or other low voltage, switch adapted appliances, either with wired or wireless switches.

Connectivity

Wireless from any SimplyWorks switch such as Switch 125, Switch 75 or Smooth Talker.



SimplyWorks Control Pro is a controller for one or two battery operated toys and other low-voltage appliances. The unit has an operating range of 10 metres (when used with wireless switches) and features the following modes:

- Direct (toy activates for as long as the switch is pressed)
- Latched (press the switch once for on and again for off)
- Timed Seconds
- Timed Minutes
- Co-Operative
- On/Off

When a timed output is selected, the time period is set using a string of LEDs. A timed output can be cancelled early by pressing either the Pair 1 or Pair 2 button.

Co-Operative mode requires two users to work together to turn on a toy. On/Off mode may either be used co-operatively (one user takes charge of 'on' and the other 'off') or can be used to great effect in separating the on and off tasks for a single user with cognitive impairment.

The unit requires 2 x AA batteries and will operate for many months without the need to replace them. As usual with Pretorian products, there's no on/off switch- the unit powers down automatically after a period of inactivity. Just press any button to wake it up again.

Features

- Works with any SimplyWorks transmitter to control battery operated toys or other low voltage appliances.
- Two 3.5mm jack plug outputs via supplied leads.
- Two independent channels
- Choice of Direct, Latched, Timed (seconds), Timed (minutes), and two Co-Operative modes of operation.
- Selectable time periods in Timed modes.
- Operates with both wired and wireless switches.
- Allows up to three wireless and one wired switch to be used with each channel.
- 10 Metre operating range.
- Automatic power saving mode - no on/off switch.
- Long battery life.

Did you know?

In Co-Operative and On/Off modes, both outputs are activated at the same time, allowing you to control two toys at the same time.

iControl

Use for
Controlling a toy or other low-voltage appliance from an iPad.

Connectivity
Bluetooth Low Energy directly from iClick app.



iControl is used to control one or two toys or other low-voltage appliances directly from Pretorian's iClick app. Please refer to page 9 for full details of iControl and page 49 for details of the iClick app.

Battery Switch Adapters

Use for
Switch adapting a toy or other battery operated appliance.



Pretorian produces battery switch adapters for the following battery sizes:

- AA / AAA
- C/D

Please specify which size you require when ordering. Fitting the battery switch adapter is a simple matter of placing the disc between the battery and the spring contact in the battery compartment. You only need place one adapter in the battery compartment per toy and it doesn't matter which battery you interrupt.

The adapter terminates in a 3.5mm socket, allowing it to be connected directly to a wired switch or operated wirelessly via one of Pretorian's toy controllers using the lead supplied with each.

SimplyWorks Toys

Pretorian licenses the SimplyWorks technology to a small number of carefully selected partners who manufacture complimentary products which Pretorian does not manufacture itself. One of the main licensing areas is toys. Although Pretorian does not sell these products itself, it requires that all licensees put the SimplyWorks roundel on every product (shown right) allowing you to identify it as being SimplyWorks compatible.

To use one of these toys, switch it on and within 20 seconds, press the Pair switch on a SimplyWorks switch. There's no need to press anything on the toy. The toy's instructions contain any further details you may need.



Use for

Switching one or two mains powered appliances using switches- either in a learning environment or a simple daily living environment. For more complex daily living configurations, please see the EnvirON range on page 42.

Connectivity

Wired switches.

Wireless switches such as SimplyWorks Switch 125, Switch 75 or Send.

Smooth Talker/Smooth Talker with Levels via toy output (either using a wired or wireless connection).

Available with UK, EU (Schuko) and US sockets (specify when ordering). For other countries please enquire.



The SimplyWorks Energise is a feature rich mains appliance controller allowing switch users to control up to two electrical appliances with wired or wireless switches, or a combination of both.

The unit has an operating range of 10 metres (when used with wireless switches) and features the following modes:

- Direct (sockets activate for as long as the switch is pressed)
- Latched (press the switch once for on and again for off)
- Timed Seconds
- Timed Minutes
- Co-Operative
- On/Off

When a timed output is selected, the time period is set using a string of LEDs. A timed output can be cancelled early by pressing either the Pair 1 or Pair 2 button.

Co-Operative mode requires two users to work together to turn on one or more appliances. On/Off mode may either be used co-operatively (one user takes charge of 'on' and the other 'off') or can be used to great effect in separating the on and off tasks for a single user with cognitive impairment.

Energise is available in three variants- UK sockets, EU (Schuko) sockets and also US sockets. All three variants are approved as medical devices and the US variant is also ETL Listed.

Features

- Two independently controlled mains sockets.
- Independent switch operation in Direct, Latched, Timed Minutes and Timed Seconds modes.
- Co-operative switch operation in Co-Op and On/Off modes.
- Allows up to three wireless and one wired switch to be paired with each socket.
- Interference free operation at up to 10 metres distance with SimplyWorks switches.
- Operates simultaneously with wired or wireless switches; or a combination of both.
- On-board memory retains the previous mode and time settings even after power-off.
- Available with UK, EU or US sockets.
- US product is ETL Listed.

Did you know?

If you use wireless switches to operate appliances via Energise or iClick, this gives the maximum possible safety since there is no physical connection between the switch and the appliance. Makes completing your risk assessments very easy!

Use for

Switching one or two mains powered appliances using wired or wireless switches or using an iPhone/iPad—either in a learning environment or as part of a daily living configuration. Also forms part of the EnvirON range—please see page 32.

iClick is very similar to Energise but also includes iPad accessibility via the iClick app for a modest increase in price (the iClick app is free of charge). Please see page 49 for more details.



Kinesthetic Learning

Kinetic for SimplyWorks

Use for
Putting the fun back into learning!

Connectivity
Any SimplyWorks receiver,
especially Smooth Talker, Control,
Control-Pro and Energise.

Features

- Gyroscopic device can determine its orientation or can detect tap and tilt.
- Use with a soft-play dice, or as a soft switch in a sensory room.
- Can also be used as a tilt switch, for example in a hydrotherapy pool.
- Pairs with any SimplyWorks receiver.
- Wireless operation.
- Built-in lithium battery- recharges via any USB port.

Activities

- **Dice** - A different message plays as each face of the cube is turned uppermost. Pair with Smooth Talker and then place Kinetic in a soft play cube. Use a soft play cube with pockets on all sides and it is possible to make the messages match the images you insert into the pockets. You could use images of animals (and their corresponding noises), shapes, textures, colours or even use it as a speaking dice. The possibilities are almost endless.
- **Find-Me** - The therapist or care giver asks that the user finds a particular image on the cube. When they successfully find it, they receive a 'reward' such as a clip of their favourite music or a toy or appliance turning on. Use with a soft play cube and Smooth Talker, Control, Control Pro or Energise.
- **Find-Me-Sequence** activity builds on the same principle as the Find-Me activity by asking the user to find all six images in turn. Use with a soft play cube and Smooth Talker, Control, Control Pro or Energise.



Kinetic is a new generation of interactive input devices. Building on the well understood principles of kinesthetic learning, Kinetic puts the fun back into learning while offering a highly effective means for teachers, therapists and carers to achieve solid learning outcomes.

The product contains a gyroscope which is able to determine its orientation and send this information wirelessly to any SimplyWorks receiver. Alternatively, it can determine when it is tapped or tilted to give a switch output.

- **Dice-as-a-Switch** - Gives a switch output each time the dice is turned to a new face. Use with a soft play cube and Smooth Talker, Control, Control Pro or Energise.
- **Tap** - Gives a switch output each time it is tapped (or caught in a throw-and-catch game). Place in a cushion or pillow and it becomes a soft switch which is ideal for sensory rooms. Use with Smooth Talker, Control, Control Pro or Energise.
- **Tilt/Float** - Gives a switch output each time the unit is tilted beyond 30°. Can be used as a tilting switch either in a soft play cube or placed in a waterproof box to be used as a float switch in a hydrotherapy pool. Use with Smooth Talker, Control, Control Pro or Energise.

There are so many things you can do with Kinetic, it's impossible to describe them all here, so please click on the Videos tab on our website and watch the videos to gain a better understanding of all that's possible.

Kinetic for iPad

Use for
Putting the fun back into learning!

Connectivity
Bluetooth to iPhone/ iPad or any
Bluetooth enabled device.

Features

- Gyroscopic device can determine its orientation or can detect tap and tilt.
- Use with a soft-play dice, or as a soft switch in a sensory room.
- Can also be used as a tilt switch, for example in a hydrotherapy pool.
- Bluetooth connection to any phone or tablet and some computers.
- Built-in lithium battery- recharges via any USB port.

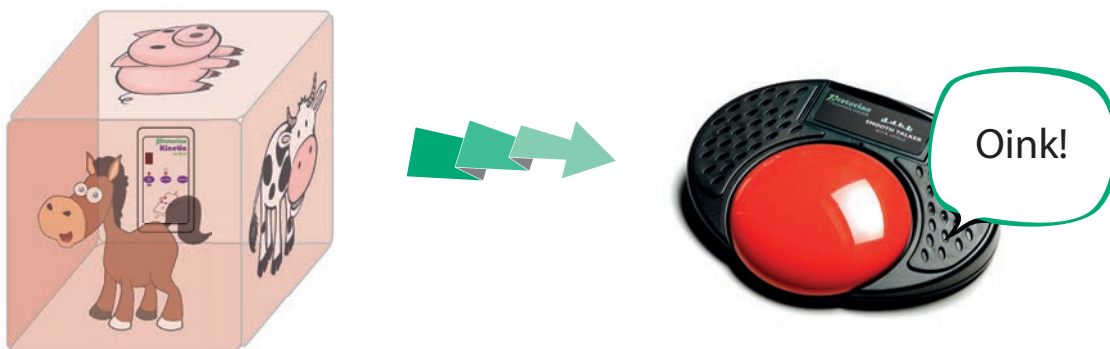
Just the same as Kinetic for SimplyWorks but containing a Bluetooth transmitter to allow it to be connected to any Bluetooth enabled device. Works especially well with the Smooth Talker app- see page 48.

There are so many things you can do with Kinetic, it's impossible to describe them all here, so please click on the Videos tab on our website and watch the videos to gain a better understanding of all that's possible.



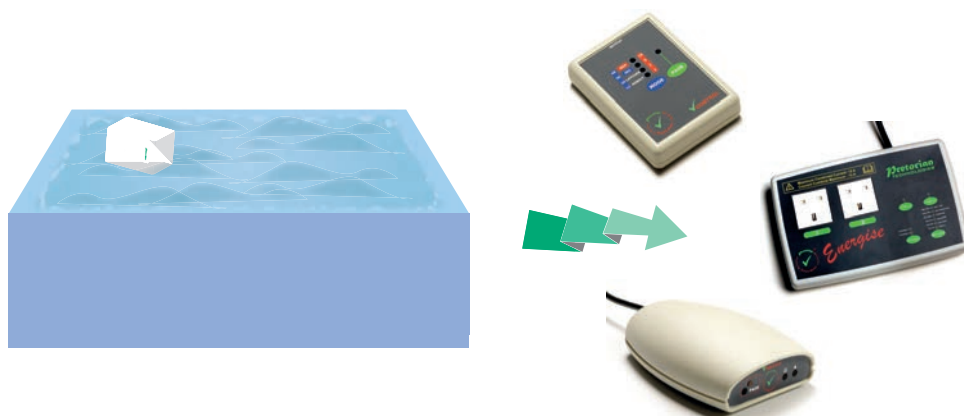
Example Activities

Kinetic for SimplyWorks (inside dice) to AAC device

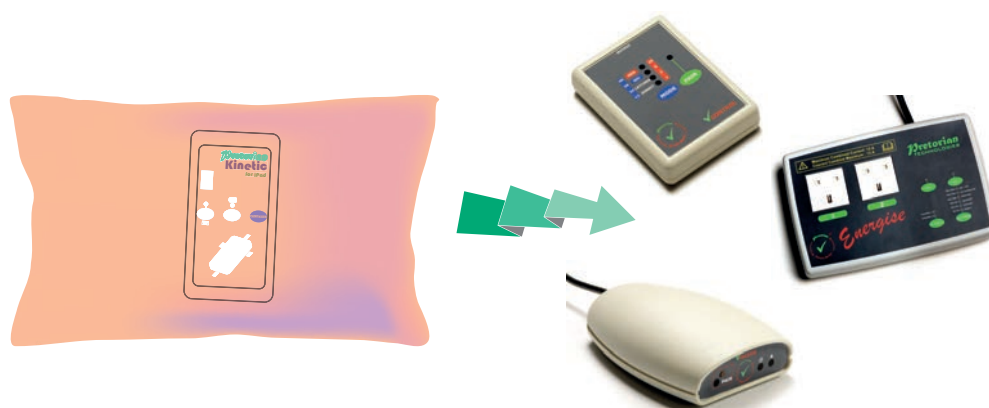


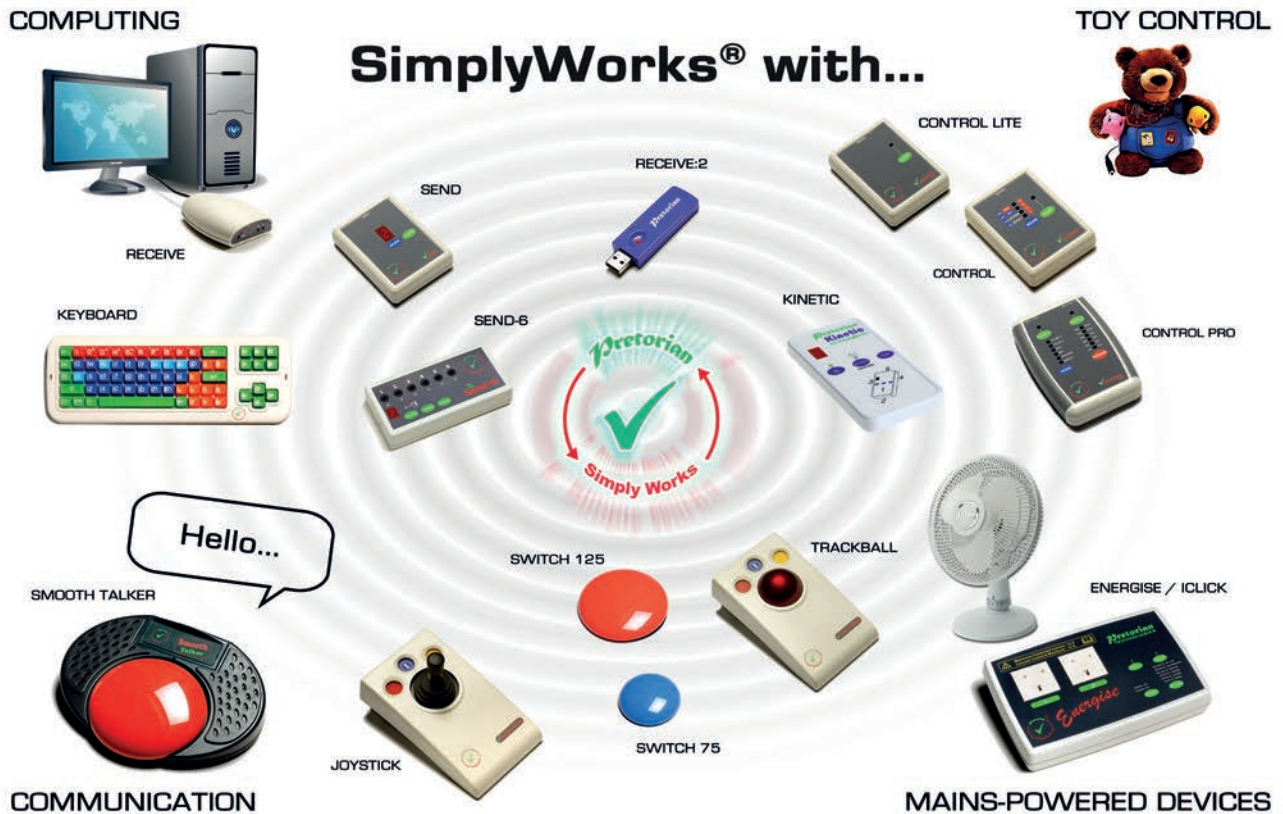
Kinetic as a Floating Switch in a Hydrotherapy Pool

(note that Kinetic is not waterproof and must be placed in a waterproof box before being introduced to water)



Kinetic as a soft switch (for example in sensory room)





The highly innovative and robust SimplyWorks system from Pretorian Technologies allows you to have switches, joysticks, trackballs, keyboards, communicators, toys, mains appliances and many other products connected together- quickly, simply and without wires.

Whether you are looking to access a computer, a tablet, work with toys, electrical appliances or communicators, SimplyWorks can help you achieve the learning outcomes you need.

For computer control, simply connect Receive or Receive:2 to the computer via a USB port and pair with your choice of trackballs, joysticks, switches and keyboards. No drivers need be loaded onto the computer, whether it's a PC, a Mac or a Chromebook. 'Pairing'- the act of connecting a transmitting device to Receive- is simply a matter of pressing a button at both ends. It's incredibly straightforward and it never forgets its settings. Up to six transmitting devices are supported by each receiver in any mix and combination you like.

Tablet control is also possible using SimplyWorks for iPad for Apple devices or Receive Micro for Android.

Wireless toy control can be achieved using a SimplyWorks Switch and toy control receiver such as Control and Control Pro. You can even pair a SimplyWorks Joystick with one of the toy control receivers to turn it into a 'wobble switch'.

If it's a mains appliance you would like to control- no problem! Use either Energise or the new iClick.

AAC is also easily achieved using Smooth Talker II or Smooth Talker with Levels. This can be controlled via SimplyWorks wireless switches and can itself control a toy or electrical appliance wirelessly using Control, Control Pro, Energise or iClick. You can even make a message interact with software by pairing Smooth Talker with Receive.

The possibilities are almost endless!

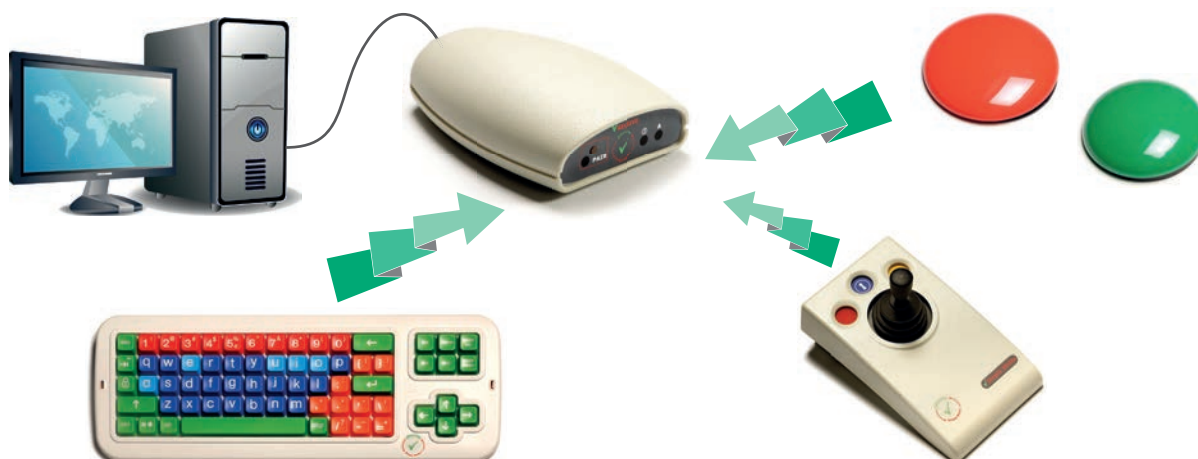
Available SimplyWorks products

	Computer Access	Toy Control	Appliance Control	AAC	Tablet Access	See Page
Joystick	✓				✓	14
Trackball	✓				✓	14
Keyboard	✓				✓	41
Receive	✓					40
Receive:2	✓					40
Switch 125	✓	✓	✓	✓	✓	19
Switch 75	✓	✓	✓	✓	✓	19
Send	✓	✓	✓	✓	✓	23
Send-6	✓	✓	✓	✓	✓	24
Control		✓				29
Control Pro		✓				30
Smooth Talker II				✓		27
Smooth Talker with Levels				✓		28
Kinetic for Simplyworks		✓	✓	✓		34
Energise			✓			32
iClick			✓			33
Receive Micro					✓	7
Simplyworks for iPad					✓	6

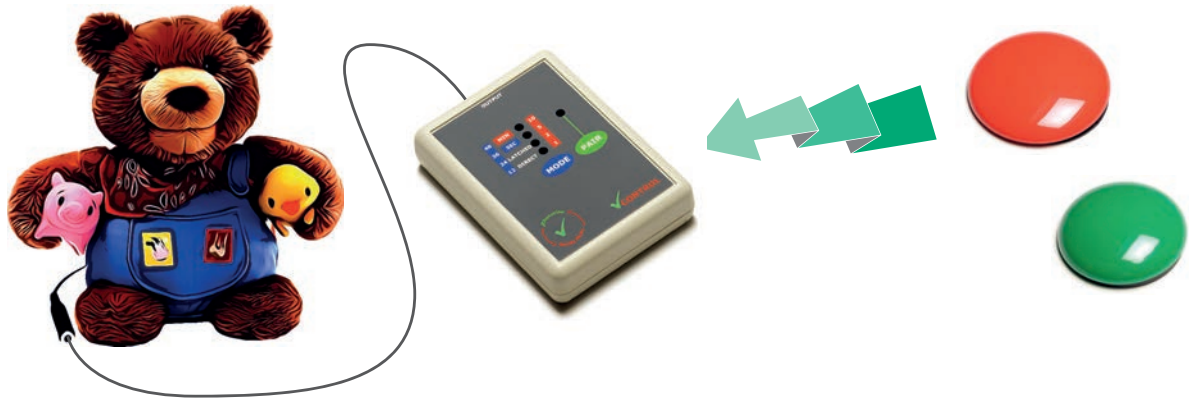
Sample Configurations

Perhaps the best way to demonstrate the flexibility of SimplyWorks is to show a few typical configurations. These are provided only by way of example and there are of course hundreds of other possibilities.

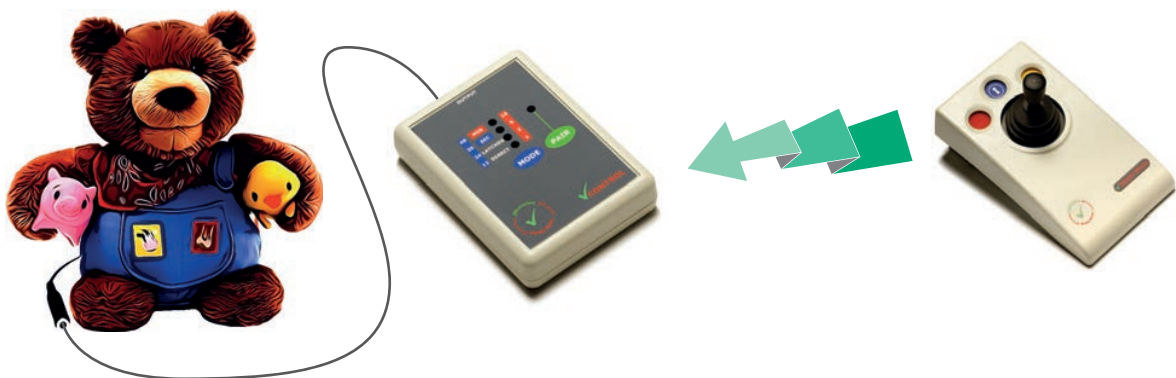
Computer Access



Toy Control using switches



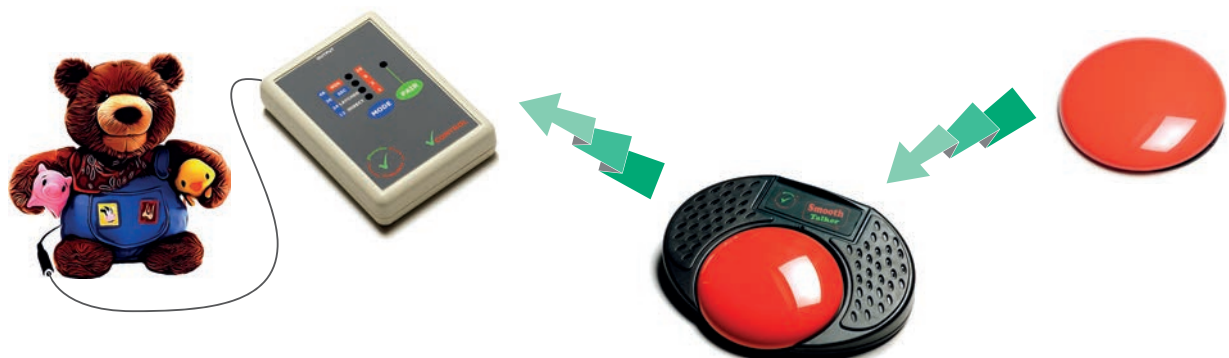
Toy control using joystick as wobble switch



Appliance Control using switches



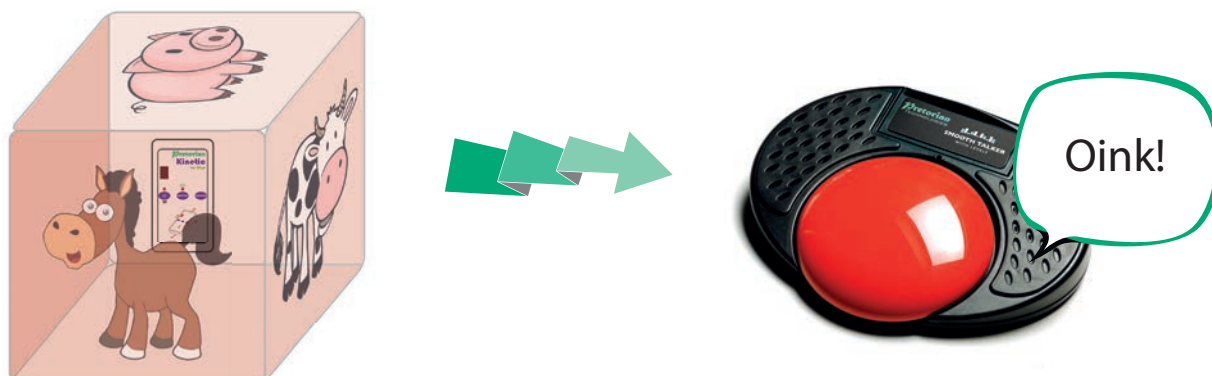
AAC device with wireless switches and toy output



AAC device for appliance control



Kinesthetic dice to AAC device



Android Switch Access using Receive Micro



iPad/iPhone access using SimplyWorks for iPad



SimplyWorks Receive

Use for SimplyWorks access for computers

- ✓ PC
- ✓ Mac
- ✓ Chromebook
- ✓ Tablets with full-sized USB socket

Connectivity USB

Features

- State of the art multi-channel wireless receiver with a range in excess of 10m, making it ideal for classroom environments.
- Supports up to six transmitters simultaneously.
- No restriction on the mix of transmitters.
- Caps Lock and Drag Lock LEDs.
- Does not require driver software - ideal for contract managed computer systems



SimplyWorks Receive is a USB receiver and interface which forms the hub of the SimplyWorks system when used for computer access. It simultaneously supports up to six SimplyWorks transmitters of any kind without needing to load any drivers onto the host computer.

SimplyWorks Receive also includes CAPs and DRAG lock LEDs for easy identification when using mouse and keyboard functions.

SimplyWorks allows you the freedom to create wireless, single or multi-user learning environments, reducing set up time and allowing you to concentrate on the learning tasks themselves.

SimplyWorks Receive:2

Use for SimplyWorks access for computers.

- ✓ PC
- ✓ Mac
- ✓ Chromebook
- ✓ Tablets with full-sized USB socket

Connectivity USB

Features

- Very compact design- similar to a memory stick.
- All other features are the same as SimplyWorks Receive.



SimplyWorks Receive:2 is functionally identical to Receive but in a smaller form-factor. Which to choose depends on the circumstances and location in which it is going to be used. For example, it may prove beneficial to choose Receive:2 if the SimplyWorks configuration is to be used on more than one computer as it's easier to transport Receive:2 from one computer to another.

Apart from the unit's form-factor, all other features are identical to SimplyWorks Receive, so please refer to its description above for further information.

Use for

SimplyWorks keyboard access for computers and tablets.

- ✓ PC
- ✓ Mac
- ✓ Chromebook
- ✓ Tablets via Receive Micro or SimplyWorks for iPad



Connectivity

Wireless to any SimplyWorks receiver.

Features

- Extremely solid construction using a steel sub-chassis and high quality mechanical switches
- Lifetime > 50 million keystrokes per key.
- Large 20mm x 20mm key caps
- Oversized key legends make the keyboard easy to read for users with visual impairments
- Intelligent colour coding represent different functional areas
- Keys are arranged vertically to make the keyboard appear less cluttered
- Choose keyboard repeat on or off
- Very long battery life.

Born out of a partnership between Pretorian and Clevy in the Netherlands and combining the best keyboard manufacturing techniques with the highly innovative SimplyWorks technology, the SimplyWorks Keyboard is both extremely rugged and wireless.

The keyboard layout is thoughtfully designed to avoid clutter and make it easy for users to find the keys they need.

As with all SimplyWorks products, the range is greater than 10 metres (32 feet), making it ideal for classroom use. Pair it with Receive for computer access, with Receive Micro for Android tablet access or with SimplyWorks for iPad for iPhone/ iPad access.

EnvirON[®] Product Range



EnvirON[®] is a highly versatile suite of environmental control products designed for disabled users to help them achieve their maximum level of independence. EnvirON[®] may be used to control almost all appliances normally associated with daily living, using one or more input methods simultaneously, including: an iPhone/iPad app, a large-key programmable remote with scanning facilities or individual wireless switches.

As its name suggests, EnvirON[®] Hub is the heart of the system and is required in most EnvirON[®] systems. It can convert wireless signals from any of the EnvirON[®] input devices into infra-red to control a TV or music system and can also accept user input from the EnvirON[®] app and convert it to infra-red or wireless signals to control the iClick mains appliance controller/ EnvirON[®] Connect door/window/curtain opener and closer. This gives the user seamless access to all their devices no matter what form they take.

Perhaps the most important aspect of EnvirON[®] however is the simplicity with which it can be configured. Many environmental controls require complex and lengthy on-site configuration by the manufacturer, making them very expensive. By contrast, EnvirON[®] is simple to set up and may be configured in a matter of minutes by reference on the comprehensive manual and on-line videos.

EnvirON® Hub

Use for
Creating connections between other
EnvirON® environmental control products.

Connectivity

Wireless to up to six EnvirON® transmitters.
Bluetooth LE to iPhone or iPad running the
EnvirON® app.
Infra-red transmitter to TVs and other
entertainment systems.



EnvirON® Hub is the heart of almost all EnvirON® environmental control systems. It is normally placed in direct sight of the TV and/or music system if infra-red (IR) control is to be used. It is permanently powered via a supplied universal wall adapter so that it's always available and it also benefits from a battery back-up facility in the event of a power failure, ensuring continued access to essential services such as a telephone. Once configured, it requires no further attention.

Its purpose is to seamlessly translate wireless signals from any of the EnvirON® input devices into either infra-red to control the TV/ music system, or into other wireless signals to control the various EnvirON® output devices which may make up the system. The user is unaware of this process - and may even be unaware of the existence of Hub in the system. All the user is interested in is that when a particular button is tapped or switch pressed, the required activity takes place. Hub is the product that makes it possible.

When used with IR appliances, Hub works as a universal remote control. Just like any 'learning' remote, it can learn the codes from your existing handheld remote control. Because disabled users often have difficulty entering two or three digit TV channel numbers quickly enough for the TV to accept, Hub has 16 'macro' codes which can each learn up to four individual key presses on the standard remote. So, for example, you could program 1-0-1 to put the TV onto channel 101 with the press of a single switch or button.

Because Hub is permanently positioned in sight of the TV and receives its inputs wirelessly, the EnvirON® input devices do not need to be pointed at the TV - a task that can often prove particularly difficult for users with disabilities. This means that the input devices can be positioned without regard to direction, including mounting them on a wheelchair.

Features

- 'Learning' infra-red remote control can learn up to 48 individual codes from almost any TV or music system.
- 16 of the codes are 'macros' comprising up to 4 individual remote key presses, allowing the user to access higher channel numbers by pressing a single button.
- Forms a 'bridge' between EnvirON® App and other EnvirON® products.
- Can be paired with up to 6 EnvirON® transmitters such as Scanning Remote and Wireless Switches.
- Permanently powered from supplied wall adapter.
- At least 4 hours of battery backup in the event of a power failure



EnvirON® Scanning Remote

Use for
Controlling TVs, mains appliances and home adaptations

Connectivity

Wireless to EnvirON® Hub, iClick and Connect.

Features

- Eight programmable, touch-sensitive buttons.
- Can be paired with multiple EnvirON® receivers to control multiple appliances.
- Can control wireless and infra-red devices via EnvirON® Hub.
- Does not need to be in line of sight of infra-red devices.
- Single or two-switch scanning option.
- Built-in rechargeable battery.
- Works simultaneously with other EnvirON® devices and the EnvirON® App.



EnvirON® Scanning Remote is a handheld or mountable remote control. Each of its eight large, touch sensitive buttons may be configured to work with any combination of EnvirON® receivers to allow you to control all your appliances from a single remote. For example, some buttons on the Scanning Remote may be configured for TV access while others may be used to turn on a lamp, open a door or close the window.

Multiple touch buttons may be grouped together for use with a single receiver, making programming very straightforward. Having five buttons in a group for TV access, two in a group to control a window opener (open and close) and one to control a lamp would be a typical configuration.

Because EnvirON® Remote is a wireless device it does not suffer from the directional behaviour of infra-red (IR) based systems, allowing the user the freedom to place the remote in any position and at any angle to achieve the most comfortable and practical configuration. EnvirON® Hub then converts the wireless signals from EnvirON® Remote to IR, ready for your TV or music player.

For users who may have difficulty using the touch buttons, two 3.5mm sockets on the rear of the unit allow either one or two-switch scanning to be used instead.

The unit has a built in rechargeable lithium-ion battery to provide several days of use between charges, or it may be permanently powered from a supplied wall adapter or from a wheelchair auxiliary power port.

Each of the eight touch buttons may be marked with a pen or with suitable self-adhesive labels to indicate their functions.

Scanning Remote may be used simultaneously with other EnvirON® input devices including the EnvirON® app, allowing control of appliances from multiple access points and using different access methods.

Use for
Controlling mains appliances as part of the EnvirON® range.

Connectivity
Wireless from EnvirON® Scanning Remote, Wireless Switches or EnvirON® app (via Hub).



Features

- Two independently controlled mains sockets.
- UK, EU and US socket versions available.
- Ultra-safe wireless control of electrical appliances



iClick is the product required to allow mains powered appliances to be controlled within an EnvirON® system. Although it can be controlled by its own simple app (also called iClick) and by wired or wireless switches, iClick forms an integral part of the EnvirON® range too.

Just pair it with the EnvirON® input devices you'd like to control it from, whether the EnvirON® app (requires a Hub to be present), a Scanning Remote, Wireless Switches, or some combination of these.

Each iClick unit can independently control two appliances via its sockets and is available with UK, US or EU (Schuko) sockets.

Because the method of controlling each of the connected appliances is entirely wireless, no contact is required with the user, making control ultra-safe.



EnvirON® Wireless Switch 125mm/75mm

Use for

Controlling TVs, mains appliances and home adaptations

Connectivity

Wireless to EnvirON® Hub, iClick and Connect.

Available Colours



Features

- Available in four colours (red, yellow, blue, green).
- Low-profile.
- Low operating force.
- Automatic power saving mode - no on/off switch
- Long battery life.



The EnvirON® Wireless Switches are available in both 125mm and 75mm diameter and are designed so that the switch will operate across the whole area with minimal operating force.

Individual wireless switches form a valuable part of the EnvirON® range, particularly for users with learning difficulties. They can be used to control any appliance, whether infra-red or mains powered, when used with the other products within the EnvirON® range.

For example, if a single wireless switch is paired with EnvirON® Hub, it can be made to send an infra-red code to the TV to change the channel. Because Hub can also record multiple key presses in its macro codes, a single switch could be programmed to send channel numbers with two, three or even four digits with a single press. The wireless switches do not suffer from the directional behaviour of infra-red (IR) based systems, allowing the user the freedom to place them in any position and at any angle to achieve the most comfortable and practical configuration.

Alternatively, a wireless switch may be paired with an iClick to allow it to control a mains-powered device. Or it could be paired with an EnvirON® Connect to allow it to control a door, window or curtain opener, or perhaps an electrical lock.

The 125mm version has industry standard fixing holes to allow it to be mounted.

Note that although the EnvirON® Wireless Switches are similar in appearance to the SimplyWorks® Switches, they do differ. However, EnvirON® Switches are backwardly compatible with SimplyWorks®.



EnvirON® Connect

Use for
Controlling home adaptations

Connectivity
Wireless from EnvirON® App (via Hub), wireless switches and scanning remote.



Features

- Can wirelessly control any hard-wired electrical device at up to 8 Amp rating.
- Ideal for door and window openers and electronic locks.
- Available for 240V ac, 120V ac and 24V dc power supplies.
- Flexible design allows uni-directional or bi-directional devices to be controlled.
- Wall mounted.
- Simple to fit by a qualified electrician.

EnvirON® Connect is a wall-mounting interface which allows home adaptations such as door openers, windows openers, curtain openers and electronic locks to be controlled as part of an EnvirON system. Devices such as these need to be fitted by a qualified electrician and must be hard-wired into the electrical supply. Simply provide the electrician with an EnvirON® Connect and it can be fitted alongside the device, or even retro-fitted to existing devices.

EnvirON® Connect has the flexibility to allow uni-directional and bi-directional devices to be connected and is also available in a 230V ac version, a 120V ac version and a 24V dc version. The rating is 8 Amps maximum irrespective of the supply voltage.

EnvirON® Alert

Use for
Interfacing EnvirON® system to warden and nurse call systems.

Connectivity
Wireless from any EnvirON® transmitter or EnvirON® app via Hub. 3.5mm output socket.



Features

- Works with any EnvirON® transmitter
- Also works with EnvirON® app via Hub.
- Direct, Latched or Timed output
- Supplied with cable to facilitate connection to call system

EnvirON® Alert is a device to allow an EnvirON® environmental control system to be connected to a warden or nurse call system, or to create an alert via a panic alarm. Simply connect the supplied cable to the 3.5mm socket and connect it in place of a manual switch or panic button.

Then pair the device you wish to use to trigger the alert- whether it be an EnvirON® wireless switch, a scanning remote or the EnvirON® App (for the latter you must also have an EnvirON® Hub as part of the system).

EnvirON® Alert can be paired with up to six transmitters, allowing multiple devices to trigger the alert if required.

Pretorian has developed a number of apps, mainly to allow its products to be controlled from an iPad or iPhone. The Smooth Talker app is perhaps the exception in that this app can be used instead of the hardware of the same name, in situations where an iPad makes more sense. All of these apps are available to download directly from the App Store.



Smooth Talker AAC App

**Compatible with
All types of iPad**

Features

- Seven innovative modes to allow you to get the most from the recorded messages
- Button colour can be selected or replaced with a photograph.
- Text can be overlaid on buttons.
- No language restrictions- you record the message!
- No limitations on vocabulary imposed by libraries
- Unlimited number and length of messages
- Switch adapted, allowing it to be used with Bluetooth switch access devices
- Fully compatible with iOS Switch Control

Smooth Talker AAC is a powerful yet easy to use AAC app that allows a series of messages to be recorded and played back by one or two users in many different ways. Based on the Smooth Talker hardware product, it is ideal for teachers, SLTs, OTs, parents and anybody involved in language development.

One or two buttons are shown on-screen and may be round or square. Buttons can be made to change colour from one message to the next and each button can be replaced with a photo on a message by message basis (direct from the iPad camera or from the gallery). You can also add text to any button or photo.

There are seven highly innovative playback modes including the hugely popular Conversation mode- a real boon for conversational development:

Sequential Playback

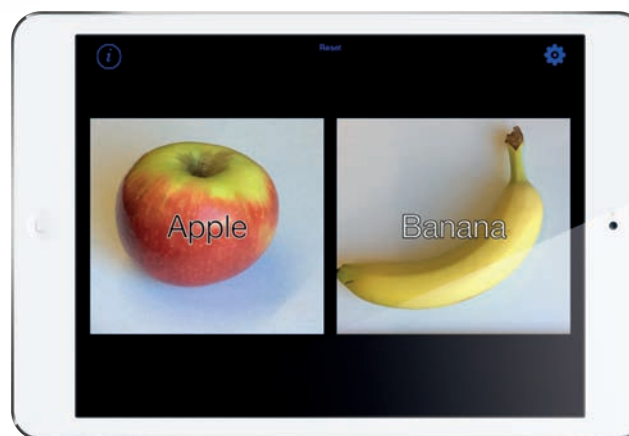
Plays the messages back in sequence, beginning with the first to be recorded. Wraps back to message 1 once all have been played.

Random Playback

Selects the next message at random from the ones recorded. For example, record the numbers 'one' to 'six' and the app becomes a speaking dice. Or record the sound of farmyard animals and use it in a 'match the sound to the animal' game.

Random (No Repeats)

Similar to Random Playback but doesn't repeat any message and doesn't leave any out. This mode is great for classroom activities. For example- record the names of a group of children and then use it to select whose go it is next in a game. Everybody gets one go and nobody gets left out. What could be fairer!



Choice Mode

This is a two-button mode. Button number 1 is assigned to message 1 and button number 2 to message 2, allowing the user to exercise a choice. Any additional recorded messages are ignored. For example, record 'Yes' and 'No'.

Conversation Playback

This is a two-button mode. Very powerful feature allows a conversation to take place between two users in strict back-and-forth order no matter how the buttons are tapped. Very useful in teaching turn-taking and the art of conversation. Many users purchase Smooth Talker and Smooth Talker AAC app just for Conversation mode- it's unique!

Auditory Prompt

This is a two-button mode. Use button 2 to skip through the messages at reduced volume to find the correct response and then use button 1 to play the message in full. Allows a teacher or OT to 'cue-up' a message.

Kinesthetic

Allows the Pretorian Kinetic for iPad product to play messages depending on the orientation of Kinetic. For example, record six messages to correspond with photos inserted on each face of a soft play cube into which Kinetic is inserted. See the Kinesthetic Learning section of this brochure for more details.

Note that any button can be replaced with a Bluetooth switch device such as the Pretorian APPLICATOR or iSwitch for increased accessibility. This app is also fully accessible via iOS Switch Control.

This app is chargeable, although educational institutions can benefit from a 50% discount program with purchasing 20 or more licences through the Apple Volume Purchase Program.

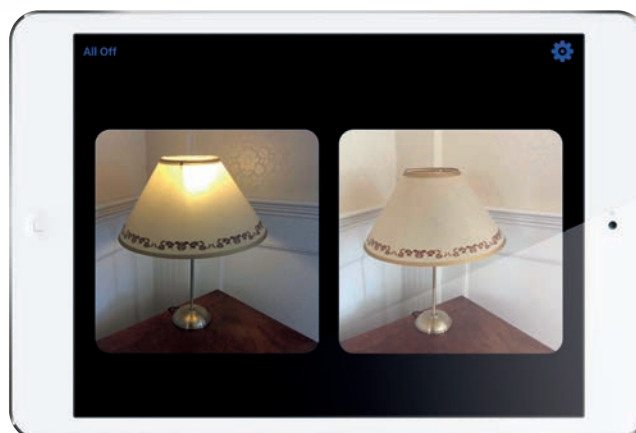
iClick App

Compatible with iPad 3, iPad Mini, iPad Air, iPad Pro or later.

Will not work with First Generation iPad or iPad 2 due to Bluetooth 4 requirement.

Available free of charge from App Store.

This app is for use with iClick and iControl- please see the iPad Output Devices section of this brochure for more details.



EnvirON App

Compatible with iPad 3, iPad Mini, iPad Air, iPad Pro or later.

Will not work with First Generation iPad or iPad 2 due to Bluetooth 4 requirement.

This app is used to control the EnvirON range of products- please see the relevant section of this brochure for more details. Available free of charge from App Store.



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Pretorian UK are pleased and proud to work in partnership with Pelican Trust Ltd whom have printed this brochure.

As they are a Social Enterprise and Registered Charity they make no profit from their commercial departments, all excess is used for training and educational courses and work experience for adults with disabilities to assist them to move on into further education, voluntary work or paid employment.

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