

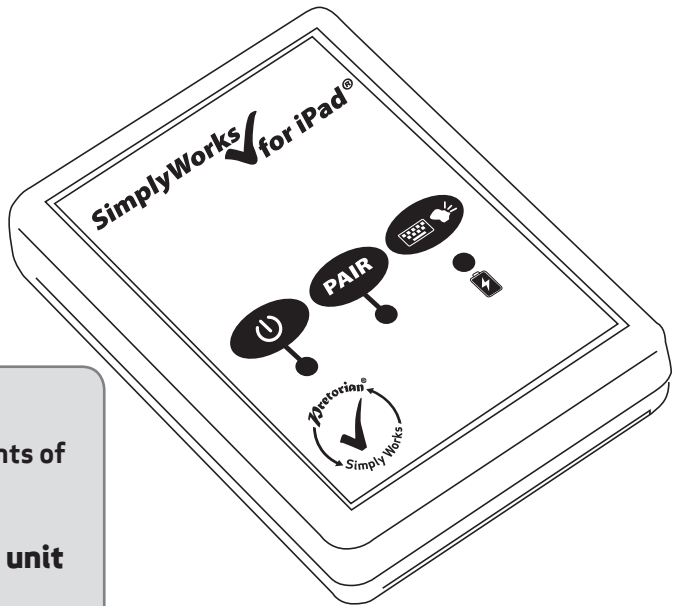


Pretorian
TECHNOLOGIES LTD.

INSTRUCTIONS

SimplyWorks® for iPad Access Device

**New
Features
Added**



Pack Contents

Carefully check the contents of the box, which are:

SimplyWorks® for iPad unit
USB charging cable
Spare Switch Function labels
These instructions

Product Description

SimplyWorks® for iPad is part of the SimplyWorks® family of products and is designed to provide iDevice access for users who:

- Already have some SimplyWorks® products and would like to use them with their iDevices, or
- Require completely wireless access to iDevices using multiple input devices, or
- Need to use a wireless keyboard with their iDevices.

SimplyWorks® for iPad is loaded with features but is extremely easy to set up and use. However, to ensure you get the best user experience, please take time to read this instruction booklet.

- **Totally wireless operation of all iPad features.**
- **Pairs directly with your iPad/iPhone/iPod without PIN entry.**
- **Supports up to six SimplyWorks® transmitters simultaneously.**
- **Switches, Joysticks and Keyboards may be used.**
- **New- Works with either Voiceover or Switch Control accessibility modes.**
- **Integral button allows on-screen keyboard to be displayed or hidden at any time.**
- **10m (32') operating range.**
- **Integral lithium-ion rechargeable battery. Charged from any USB socket.**

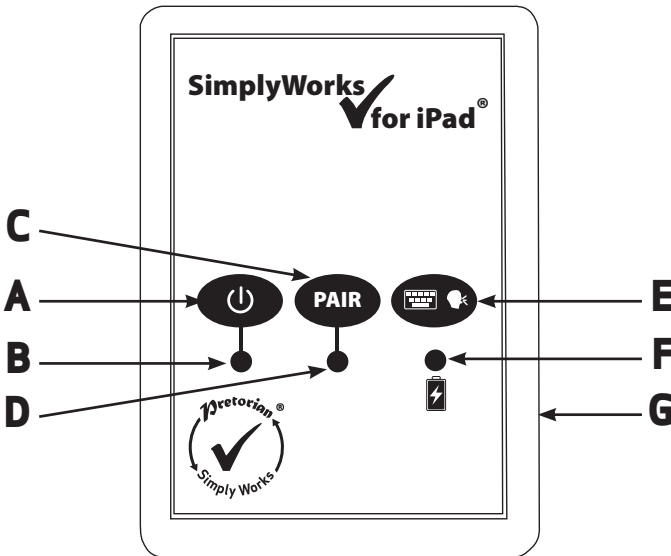


Figure 1- SimplyWorks for iPad layout

Compatibility

Your **SimplyWorks® for iPad** is compatible with the following Apple products:

iPad (all models)

iPod Touch (3rd generation and later models)

iPhone (3GS and later models)

Android tablets vary enormously in specification so compatibility with these products is dependent upon the specific tablet. Please contact Pretorian Technologies or your local distributor for guidance. In particular, other tablets do not

support Voiceover or Switch Control modes, which means that scanning will not work correctly.

Throughout these instructions, all references to iPad should be taken as meaning any of the above Apple products.

Note these instructions assume a working knowledge of the Switch Control and Voiceover accessibility features of iPad

Charging your SimplyWorks® for iPad unit

Ensure that the integral battery is fully charged by plugging the charging cable into SimplyWorks® for iPad unit and then into a computer USB port. The charging LED (F) will illuminate green to show that charging is taking place. Once charged, the charging light is extinguished.

Connecting to your iPad/iPhone/iPod

Turn on SimplyWorks® for iPad by pressing the on/off button (A). The power LED (B) will begin to flash to indicate it is searching for a device to connect with. If the LED does not continue to flash, refer to the 'Re-Connecting your SimplyWorks® for iPad' section of these instructions.

Go to the Bluetooth menu on your iPad (Settings ► Bluetooth). First of all ensure Bluetooth is turned on using the slider at the top of the screen.

After a few seconds the SimplyWorks® for iPad should appear as a 'discoverable' device. It will appear as something similar to:

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Tap on the name and the pairing process will begin. Typically it takes around 20 seconds to connect, after which the iPad will state that the device is 'Connected'. Your SimplyWorks® for iPad unit is now ready for use.

Notes about Bluetooth Connections

Once connected with a particular iPad, it will no longer be visible ('discoverable') by other iPads. If you turn your iPad off, turn off Bluetooth or if you go out of range of the SimplyWorks® for iPad unit, the connection between the two devices is automatically re-established when you next power on, turn Bluetooth on or go back into range.

If you wish to connect with a different iPad at any time, please refer to the 'Re-Connecting your SimplyWorks® for iPad' section of this manual.

Pairing with SimplyWorks® units

Before your SimplyWorks® for iPad unit can be used it must be paired with the SimplyWorks® transmitters that you require it to work with. Irrespective of the particular product, the process is the same:

1. Place the transmitter unit close to your SimplyWorks® for iPad unit.
2. Briefly press the Pair button (C) on your SimplyWorks® for iPad. The pairing LED (D) will flash slowly.
3. Within 10 seconds, briefly press the Pair button on the transmitter.
4. The Pair LED (D) on SimplyWorks® for iPad will continue to flash for a short time while pairing takes place. Once complete, the Pair LED lights steadily for a few seconds to indicate success. The transmitter is then ready to use. Whenever

data is received from the transmitter device, the Pair LED flashes briefly to give a visual indication that the radio link is operational.

5. If the Pair LED stops flashing after 30 seconds and does not light steadily, repeat the process from 2. If it is still not successful, please refer to the Troubleshooting section.

Switch 125, Switch 75, Send, Send-6, Smooth Talker, SimplyWorks® Keyboard and SimplyWorks® Joystick are all ideal for use with SimplyWorks® for iPad. Note that we do not recommend using SimplyWorks® Trackball with SimplyWorks® for iPad.

Pairing information for all six channels is retained in your SimplyWorks® for iPad unit even if the battery becomes flat.

Multiple Transmitters on one SimplyWorks® for iPad.

Your SimplyWorks® for iPad can support up to six transmitter units simultaneously. Pairing the second and subsequent transmitters is just like pairing the first.

If you should attempt to pair a seventh transmitter, the transmitter that has been used least recently will be replaced by the new one. The other five transmitters are unaffected. This way, transmitters that are no longer used with this SimplyWorks® for iPad, or are used infrequently, are the first to be replaced.

If at any stage you would like to start the pairing process over again, press and hold the Pair button (C) for around 3 seconds. The Pair LED (D) will flash quickly and the pairing information for all six channels is erased, allowing you to start over.

Choosing Voiceover or Switch Control functionality


(If you are using SimplyWorks® for iPad only for switch adapted app access or for typing using the SimplyWorks® Keyboard, this setting is irrelevant and can be skipped).

Before using your SimplyWorks® for iPad, select whether you would like to work with Voiceover or Switch Control accessibility modes in iPad. Both modes allow you to scan, select items, navigate within an app and type using the on-screen keyboard.

The factors influencing your decision may include the following:

- Switch Control is a newer accessibility mode and is purpose designed for scanning. Voiceover was never intended for scanning and consequently has some limitations.
- Voiceover is easier to use for page-turning in iBooks. This is a very important factor for some users.
- Switch Control 'takes over' the Bluetooth interface when engaged and will not allow normal operation of a wireless keyboard for typing.

You may find it helpful to consult the videos posted on the SimplyWorks® for iPad product page of the Pretorian Technologies website in making your decision: <http://www.pretorianuk.com/simplyworks-for-ipad>

Once you have selected the most appropriate mode, set SimplyWorks® for iPad to the corresponding mode. Press and hold the  button (E) until the LED beneath it (F) flashes rapidly indicating Voiceover mode or flashes slowly indicating Switch Control mode. Press and hold again to change the mode until you get the required setting (see table 1).

Once set to the required setting, SimplyWorks® for iPad retains the setting even if the battery becomes flat.

Note that SimplyWorks® for iPad is shipped set to Voiceover mode by default to offer out-of-the-box compatibility with previous versions of the product.

LED (F) flashing	Mode setting
Slowly	Switch Control
Quickly	Voiceover

Table 1: Voiceover/Switch Control mode setting

Using SimplyWorks® for iPad with wireless switches

SimplyWorks® for iPad is compatible with the following SimplyWorks switch-input products from Pretorian Technologies: Switch-125, Switch-75, Send and Send-6.

Because the iPad does not have a cursor, some of the functions that are normally provided by SimplyWorks® switch-input products have no effect on iPad (for example, left click and drag lock). To ensure the best user experience, we have changed these to functions that are useful in an iPad environment. Table 2 shows the functions:

Mode Setting	Type	Function	Suitable for Switch Control scanning	Suitable for Voiceover scanning	Notes
0	Media	Skip Forward			
1	Media	Skip Back			
2	Media	Timed Play			Plays for 15 seconds. Must be paused initially.
3	Media	Mute			
4	Scanning	Select	✓	✓	Voiceover must be on or must be programmed to Select Item in Switch Control
5	Scanning	Home	✓	✓	Does not need to be programmed in Switch Control mode
6	Media	Play/Pause			
7	Keyboard	Space	✓		Or for switch adapted app access
8	Keyboard	Enter	✓		Or for switch adapted app access
9	Keyboard	Tab	✓		
A	Keyboard	-1			For switch adapted app access
B	Keyboard	-3			For switch adapted app access
C	Media	Volume Up			Also used as Shutter and Video Start/Stop in camera app
D	Media	Volume Down			
E	Keyboard	Numeral 2	✓		
F	Keyboard	Numeral 3	✓		
G	Keyboard	Up Arrow	✓	✓	Also used as Page Back in iBooks®
H	Keyboard	Down Arrow	✓	✓	Also used as Page Forward in iBooks®
J	Keyboard	Left Arrow	✓	✓	
L	Keyboard	Right Arrow	✓	✓	
P	Scanning	Scan Up			
R	Scanning	Scan Down			
T	Scanning	Scan Left			
U	Scanning	Scan Right			

Table 2: Switch functions for switch-input products

Because the table is different to the functions label fitted to these products, we have supplied some replacement labels. These may be placed over the existing label, or elsewhere. (If you use your SimplyWorks® transmitters with both computers and iPads, we recommend you don't cover up the original label).

Note that if you use a SimplyWorks® switch-input product in a computer environment (e.g. PC or Apple Mac), the functions will be those given on the original label. Only when used with an iPad are the functions on the replacement labels used.

In most cases wireless switches will be used either for switch adapted app access or for scanning. In the case of the former, there is no requirement to engage either Voiceover or Switch Control- simply set the wireless switch(es) to the modes required by the app you will be using. Space, enter, ~1 and ~3 are the most commonly required characters, but your app provider will be able to advise.

When used for scanning in Voiceover mode scan using up/down/left/right arrow, use Select to select an item or open an app and Home to close an app.

To scan in Switch Control mode, use any of the functions marked with a tick in the 'suitable for Switch Control Scanning' column of Table 1 and program them to the desired functions in Settings ► General ► Accessibility ► Switch Control. As a starting point, consider the settings in Table 3. Note that Home (function 5) is an inherent function and does not need to be programmed in Switch Control.

Switch Function	Switch Control setting
Enter	Select Item
Right Arrow	Move to Next Item
Left Arrow	Move to Previous Item

Table 3: Suggested Switch Control settings

To use scanning functions you must have Voiceover or Switch Control engaged on your iPad and the SimplyWorks® for iPad set to the corresponding mode (see Choosing Voiceover or Switch Control Functionality section).

Using SimplyWorks® for iPad with a Keyboard

SimplyWorks® for iPad may be paired with the SimplyWorks® keyboard to give full QWERTY keyboard input. Please note that the Insert, Home, End and Page Down keys are not supported by iPad. When the iPad is set to Voiceover mode, Page Up functions as 'Select'. Escape always functions as Home irrespective of any accessibility settings.

When the host iPad is set to Switch Control mode, the keyboard will no longer function for typing but individual keys can be programmed to any Switch Control function.

Additionally, depending on the specific keyboard layout you have, you may need to change the iPad to the same layout.

Tap 'Settings' from the home screen and then select 'General'. Scroll to the bottom of the right column and tap 'Keyboard'. Then tap 'International Keyboards' and ensure that the correct layout is selected under 'Choose a Hardware Keyboard Layout' (e.g. US, UK, German etc).

Using SimplyWorks® for iPad with a Joystick

Although the iPad does not have a cursor, we have enabled the SimplyWorks® Joystick to be used as an intuitive scanning device in either Switch Control or Voiceover modes.

The joystick may then be used to scan back and forth between apps on the home screen, scan within apps and also scan the on-screen keyboard. Table 4 summarises the way in which the joystick functions in Switch Control and Voiceover modes:

Operation	Function	Notes
Move Joystick to Right	Scan Forwards	Rate of scanning increases with distance from rest position
Move Joystick to Left	Scan Backwards	Rate of scanning increases with distance from rest position
Move Joystick Up	Scan Up	Moves from dock to home screen in Voiceover
Move Joystick Down	Scan Down	Moves from home screen to dock in Voiceover
Left Click	Select	Opens App or Selects item
Right Click	Home	Closes app
Centre Click	Play/Pause	Plays/ stops music or other media.

Table 4: Joystick functions

If you are using the joystick in Voiceover mode, you must first turn on Voiceover using the slider in Settings ➤ General ➤ Accessibility ➤ Voiceover. Note that moving the joystick up and down does not scan from row to row on the home screen. This is due to the way in which Apple have implemented the Voiceover feature. Additionally, in iBooks, moving the joystick up and down may be used to turn pages forward and back when the page ticker at the foot of the screen is selected.

If you are using the joystick in Switch Control mode, you must first program the Switch Control interface using the following procedure:

1. Ensure the SimplyWorks® for iPad is already connected to the iPad and the joystick already paired.
2. Go to Settings ➤ General ➤ Accessibility ➤ Switch Control and tap 'Switches'.

3. Tap 'Add New Switch' and then 'External'. Move the joystick to the right. The iPad will then ask for a name. Type 'joystick right' or similar and then assign to 'Move to Next Item' function.
4. Repeat step 3 for a joystick movement to the left. Name it 'joystick left' or similar and assign it to 'Move to Previous Item' function.
5. Repeat step 3 for the red (left) button. Name it 'red button' or similar and assign it to the 'Select Item' function.
6. Tap 'Back' and then turn on Switch Control using the slider at the top of the screen.

Note that there is no need to program up or down joystick movements, nor the middle or right buttons.





Using SimplyWorks® for iPad with other SimplyWorks® products

SimplyWorks® for iPad may also be used with Smooth Talker. When paired together, Smooth Talker can be made to transmit the 'space' character to SimplyWorks® for iPad by turning on the toy output for any particular message.

The 'space' character is then onwardly transmitted to iPad and may be used in switch adapted apps or in Switch Control mode, for example, to allow an action to be carried out when a particular message is played.

On-Screen Keyboard

Because your **SimplyWorks® for iPad** appears to the iPad as a keyboard, the iPad automatically turns off the on-screen keyboard. This can cause difficulties in some Apps which require a typed input such as entering a user's name.

To overcome this, **SimplyWorks® for iPad** allows you to deploy the on-screen keyboard manually at any time. Briefly press the /  button (E) and the on-screen keyboard will be deployed automatically. To turn it off again, briefly press the /  button again.

Note that the iPad only allows the on-screen keyboard to be deployed when a text input box is selected. It is automatically hidden when the text input box is deselected but will pop up again when another one is selected.

Re-Connecting your SimplyWorks® for iPad.

If, when turning on your **SimplyWorks® for iPad**, the power light does not continue to flash rapidly, this indicates that the unit is already connected to another iPad in the vicinity. In this case you will need to 'forget' this connection before you can re-connect with another unit.

Similarly, if you have been using your **SimplyWorks® for iPad** with a particular iPad that is still in the vicinity and you wish to swap it to another, you will also need to forget the existing connection.

Go to the Bluetooth menu on your iPad (Settings ➤ Bluetooth) and tap the blue arrow adjacent to the unit name, for example:

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Then tap on 'Forget this device'. At this point the unit is no longer connected with the original iPad and will appear as a 'discoverable' device on all iPads in the vicinity. You can then re-connect with a different iPad by again tapping on the unit name in the Bluetooth menu on the iPad you wish to connect to.

Automatic/ Manual Power Off

To conserve battery life, **SimplyWorks® for iPad** automatically turns off if it remains unused for approximately 30 minutes. Pressing the power button (A) on the unit turns it on again. While off, the connection with the iPad is lost but is automatically re-established within a few seconds of turning on.

If the unit remains unpaired for more than 5 minutes, it will also turn off.

The power may be turned off manually at any time by pressing and holding the power button (A) for one second.

Battery Life and Battery Charging

A fully charged battery gives approximately 40 hours of use. When the battery is getting low, the Charging LED (F) begins to blink red. This is an indication that you should charge the battery soon.

Plug the charging cable into the charging socket (G) and then into a USB socket on a computer. Ensure the computer is turned on.

While charging, the Charging LED will be illuminated green. Once charging is complete (a matter of a few hours if fully discharged) the charging LED will be extinguished. You can then unplug the cable.

*Note that you can carry on using **SimplyWorks® for iPad** while it is charging.*

SimplyWorks® for iPad plugs into a computer USB port for charging purposes only - it does not give a functional connection this way.

Maintenance

Your **SimplyWorks® for iPad** has no user serviceable parts. If repair is necessary the unit should be returned to Pretorian Technologies or an authorised distributor.

SimplyWorks® for iPad contains a lithium ion battery that isn't user replaceable. Although the unit uses the very latest battery technology, it may eventually need to be replaced.

Disposal of batteries is often subject to local laws. Please consult your local authorities for information relating to your locale. Never dispose of a battery in fire.

Troubleshooting

If your **SimplyWorks® for iPad** doesn't operate correctly, please use the following guide to determine the cause. If, after following this guide, your unit still doesn't operate, please contact your supplier before returning it.

Symptom	Possible Cause/ Remedy
My SimplyWorks® for iPad is not 'discoverable' on my iPad.	<ul style="list-style-type: none">• Ensure battery in SimplyWorks® for iPad is charged.• Ensure unit is powered on (LED (B) should be flashing)• Unit may be connected with another iPad which is in range. Use 'forget this device' in Bluetooth menu of other iPad to make unit available.
My SimplyWorks® for iPad has been connected to this iPad before but won't connect now.	<ul style="list-style-type: none">• Re-connection should be automatic but if difficulties persist, try 'forget this device' and then re-connect. This usually resolves any connection issues.
SimplyWorks® transmitter unit not functioning with SimplyWorks® for iPad .	<ul style="list-style-type: none">• Unit not paired with SimplyWorks® for iPad - follow procedure in pairing section.• Batteries in transmitter unit flat - replace.
SimplyWorks® transmitter unit works erratically or intermittently.	<ul style="list-style-type: none">• Batteries in transmitter unit flat - replace.• Out of range - move transmitter unit closer to SimplyWorks® for iPad.• Interference - place transmitter unit and SimplyWorks® for iPad away from sources of interference.
Unit will not pair- LED is extinguished after 30 seconds.	<ul style="list-style-type: none">• Batteries in transmitter unit flat - replace.• Ensure transmitter unit close to SimplyWorks® for iPad (e.g. 1 metre) while pairing.
SimplyWorks® keyboard can't be used for typing	<ul style="list-style-type: none">• iPad set to Switch Control mode - Turn off or consider using Voiceover instead• Batteries in keyboard flat- replace• Keyboard not paired - follow procedure in pairing section

Warranty

Your **SimplyWorks® for iPad** is warranted against defects in manufacture or component failure. The unit is designed for domestic and educational applications. Use outside these areas will invalidate the warranty. Unauthorised repair or modification, mechanical abuse, immersion in any liquid or connection to incompatible equipment will also invalidate the warranty.

The Apple brand name is used for identification purposes only and is acknowledged.



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