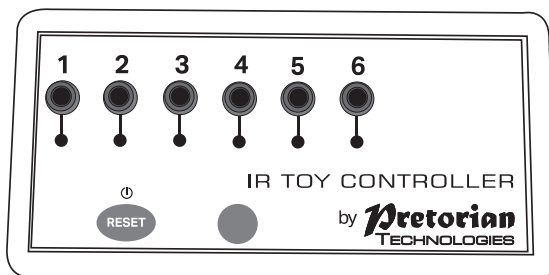# Pretorian
TECHNOLOGIES
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INSTRUCTIONS

IR Toy Controller

Pack Contents
Carefully check the contents of the box, which are:
IR Toy Controller
6 x toy cable
Instructions for use.

Product Description

IR Toy Controller is an accessory to AAC devices, allowing the user to control toys and other appliances using eye-gaze. For example, if a user needs to control a switch-adapted bubble machine, **IR Toy Controller** can simply be plugged into the bubble machine via one of the supplied cables and controlled in a variety of ways from their AAC device.

IR Toy Controller makes use of the infra-red output that is available on most AAC devices and should be used together with the associated Gridsets/ Pagesets which may be downloaded from the Pretorian website and installed on the user's AAC device. There are Gridsets/ Page Sets for most combinations of AAC device and AAC software.
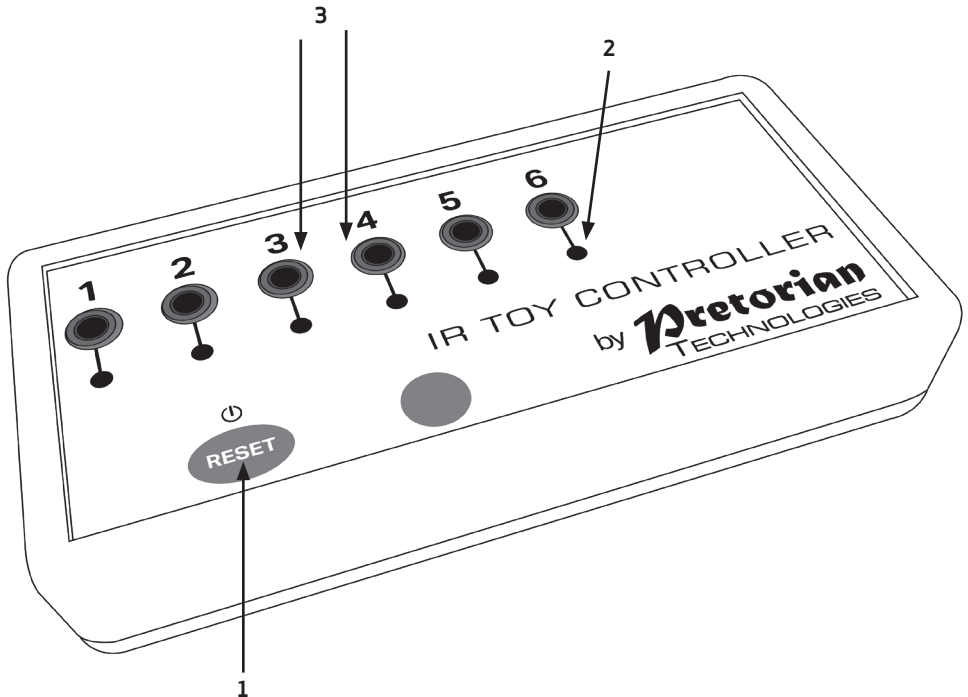
Pre-programmed buttons are available in the example Gridsets/ Pagesets to control each output in Switch, Latched, Timed or On/Off modes.

IR Toy Controller has six independent outputs, any/ all of which may be used with switch adapted low-voltage appliances and also with appliance controllers such as Pretorian's iClick mains controller.

Switch mode allows the user to control other switch-adapted equipment from their AAC device and is equivalent to a short press of a mechanical switch. This may be useful in allowing another piece of AT equipment to be controlled from the user's AAC device rather than by using a conventional switch, for example by using eye-gaze.

- **Independent control of up to six appliances from an AAC device**
- **Latched, Timed or On/Off control**
- **Automatic and manual power-down options.**

Getting Started

First of all, remove the battery cover and fit two good quality AAA batteries. Alkaline batteries such as Duracell or Energizer are best. If you are not intending to use your **IR Toy Controller** for an extended period of time, it is advisable to remove the batteries to prevent leakage, which may damage the product.

Next, add the relevant Gridset or Pageset to Grid 3/ Communicator 5, as appropriate to your particular AAC software and hardware. At present, three options are available to download from the Pretorian website...

- **Grid 3 on Gridpad**
- **Grid 3 on I-Series**
- **Communicator 5 on I-Series**

You can locate them easily using the QR code on the back page of these instructions. More options may be made available over time if required.

Please refer to the instructions for your particular AAC device for information on how to add Gridsets/ Pagesets if you are unfamiliar with how to do this. Now start the AAC software and select the **IR Toy Controller** Gridset/ Pageset and you will see a grid/ page similar to this:

	🔒				💡			🚫💡			🔴	
Output 1	10sec	15sec	20sec	30sec	5sec	1min	2min	5min	10min	20min	30min	1hour
Output 2	10sec	15sec	20sec	30sec	5sec	1min	2min	5min	10min	20min	30min	1hour
Output 3	10sec	15sec	20sec	30sec	5sec	1min	2min	5min	10min	20min	30min	1hour
Output 4	10sec	15sec	20sec	30sec	5sec	1min	2min	5min	10min	20min	30min	1hour
Output 5	10sec	15sec	20sec	30sec	5sec	1min	2min	5min	10min	20min	30min	1hour
Output 6	10sec	15sec	20sec	30sec	5sec	1min	2min	5min	10min	20min	30min	1hour

The Gridsets/ Pagesets available for download may be treated as a 'library' of all the IR commands you are likely to need to control **IR Toy Controller**. It is very unlikely that you will need them all, so you may wish to build your own with only the commands you need for a particular situation or a particular appliance. This will allow you to make each button bigger, which may help with eye-gazing. You can also move them around the screen to suit your exact requirements, or even attach photos to them to represent the appliance each one controls. Please refer to the instructions for your AAC software for more information on how to achieve this.

For each of the six outputs [3] there is a single button to enable it to Latch on/off (🔒). A single click or eye-gaze will turn it on and another will turn it back off again.

For a timed output, there are a variety of timer periods which may be selected, with a separate button for each. Clicking or eye-gazing on the chosen time period energises the relevant output for the specified time. Clicking/ eye-gazing again during the timer period has no effect, i.e. it doesn't extend the timer period. Note that a timer period may be ended on any output (or all outputs) by pressing the Reset button [1]. Thus it can be treated as an 'emergency stop' if required.

For each output there's also an On (💡) button and a corresponding Off button (🚫💡). These are useful in separating the two cognitive processes of turning an appliance on and off. **Note that although they are usually used together, Off can also be used together with a latching button or a timed button and will always turn off the corresponding output. This can be useful in allowing a long timer period to be ended early, for example.**

Whenever an output is energised, the adjacent Output Busy LED [2] lights.

The Switch buttons energise the relevant output for a very brief period (about 0.1 seconds) which closely resembles a brief switch press. It may be used to control various switch-controlled AT equipment from the AAC device such as Pretorian's APPlicator.

Power On/Off & Sleep

IR Toy Controller powers down automatically after 10 minutes of non-use. All the Output Busy LEDs [2] flash briefly to indicate it is powering down. It will not go to sleep until any pending timer activity has timed out. Once it has powered down, only pressing the Reset button [1] will wake it back up. It will not receive IR commands while asleep.

IMPORTANT NOTE: IR Toy Controller will only power down automatically when all its outputs are inactive. If you leave an output latched on, it will be unable to power down and this will adversely affect battery life.

Alternatively, you can power down **IR Toy Controller** by an extended press of the Reset button [1]. When you see all the Output Busy LEDs [2] flash briefly, this indicates the unit is powering down and the button may be released. Pressing again wakes it back up and all the LEDs will flash once again.

Output Rating

The output rating of the 3.5mm output jacks is 1 Amp at up to 30V. Exceeding this rating may cause permanent damage and is not warranted.

Maintenance

IR Toy Controller has no user serviceable parts. If repair becomes necessary, the unit should be returned to Pretorian Technologies or an authorised distributor.

Warranty

Your **IR Toy Controller** is warranted for 24 months from the date of purchase against defects in manufacture or component failure. The unit is designed for domestic, educational, commercial and a limited range of medical applications. Use outside these areas will invalidate the warranty. Unauthorised repair or modification, mechanical abuse, immersion in any liquid or connection to any incompatible equipment will invalidate the warranty.

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Product Page

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