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Single Switch Controller for Televisions

Catalogue No. TVCONT

Technical Solutions' Television Controller consists of a small box, and a trainable remote control unit which provides a simple method for single switch users to operate remote control televisions. Almost any switch, pneumatic or radio link can be used to operate the controller.

A specially designed scanning system allows a single switch user to select on/off, volume up/down, and up to 5 different channels.

The trainable (or universal) infra red control (URC) is 'taught' to emulate the original remote supplied with the television. Please refer to the manual supplied with the URC for programming and general operation details.

The Television Controller simulates a person pressing the following buttons on the URC:

<u>Button</u>	<u>Function</u>
Power	Television On/Off
Volume Up	Volume Up
Volume Down	Volume Down
1	Select Channel 1
2	Select Channel 2
3	Select Channel 3
4	Select Channel 4
5	Select Channel 5

For the Television Controller to work, you must program the URC buttons listed above. (You can set up any other buttons as well, but they will not be accessible via the Television Controller.)

Setting Up

Plug the AC adaptor into the socket at the back of the box and plug into the mains power. Next plug a switch of your choice into the socket at the front of the controller. The television controller should be pointed in the general direction of the television.

Scanning Speed Adjustment

A knob at the back of the unit allows the scanning speed to be adjusted. Please note that the scanning lights switch off after a period of inactivity to avoid distracting 'light shows' once selections have been made.



Operating the Controller

The first switch press 'wakes' the unit up, and a scan commences across the top 3 lights on the panel. Each light is colour coded for easy use in a dim room.

If the switch is pressed again while the light corresponding to the on/off function is lit, the T.V. will change state - turn from on to off or visa versa.

If the switch is pressed while either the volume or channel lights are on, a second sub-scan will commence, offering a choice of up or down. A further switch selection will cause the volume to ramp up or down, or the channel to step up or down through the first 5 tuning selections of the television.

If no switch is pressed, the system reverts back to the top scan, and shortly after switches back to stand-by.

Controlling Other Appliances

The URC has 6 banks of information. This effectively means each button can be used for 6 different functions. Usually Bank 1 would be used for the main television, and other banks for other devices.

Each button on the URC stores a control message which a television or other infra red remote control appliance understands. The URC records a signal into each 'location' and plays it back when the button is pressed. It doesn't know whether the code stored in the 'Volume Up' button actually will cause the volume on a television to increase or not.

You can use the Volume Up, Volume Down and On/Off buttons in Banks 2-6 for other remote control appliances.