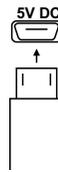
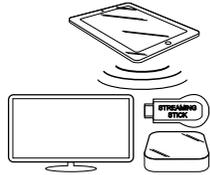


**To connect the Recreated ZX Spectrum to a compatible phone, tablet, Mac, PC or connected TV by USB ("Wired"):** Turn the Recreated ZX Spectrum OFF. Use the included (USB) Cable to connect the 5V DC Socket to a compatible device. Turn the Recreated ZX Spectrum ON. The STATUS LED will flash red three times, then go off. As soon as the Recreated ZX Spectrum is connected it can be used.



### Streaming to a Connected TV

A connected TV (sometimes referred to as a Smart-TV) is either a TV with integrated internet capabilities or a TV to which internet capabilities have been added by connecting a streaming device to its HDMI socket. Streaming devices include but are not limited to those provided by Apple® (Apple TV®), Google® (Chromecast®), Amazon® and Roku®.



**To use the Recreated ZX Spectrum with content being streamed from a compatible phone, tablet, Mac / PC to a connected TV:** Follow the steps outlined above to connect the Recreated ZX Spectrum to a compatible device. Refer to the user guide provided with your compatible device and to the user guide provided with your connected TV or streaming device for instructions on streaming the content (e.g. games, apps or applications) to the connected TV. As soon as the Recreated ZX Spectrum is connected (and the content is streaming to the connected TV) it can be used.

### Apps and Web Apps

The Recreated ZX Spectrum is an open system. This means that anyone can make games, apps and applications available for the recreated device. To get you started the Recreated ZX Spectrum includes the FREE Recreated ZX Spectrum app and the Recreated ZX Spectrum ONLINE web app (as downloadable items).

**FREE Recreated ZX Spectrum app:** Using your compatible device search your app store(s) for the **FREE Recreated ZX Spectrum app**, using the search term 'Recreated ZX Spectrum' ... then download the app. Open the app. So long as the Recreated ZX Spectrum is connected and its 'LAYER Switch' is set to 'A', it can be used with the app.

**Recreated ZX Spectrum ONLINE web app:** Using your compatible device go to RecreatedZXSpectrum.com and locate the Recreated ZX Spectrum ONLINE web app... then bookmark it or create a short cut on your home screen or desk top. Open the web app. So long as the Recreated ZX Spectrum is connected and its 'LAYER Switch' is set to 'A', it can be used with the web app.

Other apps and web apps for the Recreated ZX Spectrum are available from other vendors, (yet more are in development and will be available in the future). All these other apps and web apps can be found by using your compatible device to search your app store(s) and ONLINE, using the search term 'Recreated ZX Spectrum'. A list of these other apps and web apps for the Recreated ZX Spectrum can be found at RecreatedZXSpectrum.com The list is kept under review and will continue to be revised well in to the future.

Note: If you are not able to find the FREE Recreated ZX Spectrum app or the Recreated ZX Spectrum ONLINE web app then the likelihood is that your device is not yet supported by the app or the web app. However, support for more devices is planned, so do please check back from time to time to find out if and when your device is supported by the app and the web app.

### Technical Support

Available online at: [RecreatedZXSpectrum.com](http://RecreatedZXSpectrum.com) and by email to: [zxpectrum@elite-systems.co.uk](mailto:zxpectrum@elite-systems.co.uk)

**FCC Operation Guide** - This device complies with part 15 of the FCC rules. Operation is subject to the following two conditions: (1) This device may not cause harmful interference, and (2) this device must accept any interference received, including interference that may cause undesired operation.

**FCC Compliance Statement** - This equipment has been tested and found to comply with the limits for a Class B digital device, pursuant to part 15 of the FCC Rules. These limits are designed to provide reasonable protection against harmful interference in a residential installation. This equipment generates, uses and can radiate radio frequency energy and, if not installed and used in accordance with the instructions, may cause harmful interference to radio communications. However, there is no guarantee that interference will not occur in a particular installation. If this equipment does cause harmful interference to radio or television reception, which can be determined by turning the equipment off and on, the user is encouraged to try to correct the interference by one or more of the following measures:

- Reorient or relocate the receiving antenna.
- Increase the separation between the equipment and receiver.
- Connect the equipment into an outlet on a circuit different from that to which the receiver is connected.
- Consult the dealer or an experienced radio/TV technician for help.

**IMPORTANT NOTE - FCC Caution Statement:** Changes or Modifications not expressly approved by the party responsible could void the user's authority to operate this device.

**Disposal and Recycling Information** - When this product reaches its end of life, please dispose of it according to your local environmental laws and guidelines.

This marking on the product, accessories or literature indicates that the product and its electronics accessories (e.g. charger, headset, USB cable) should not be disposed of with other household waste at the end of their working life. To prevent possible harm to the environment or human health from uncontrolled waste disposal, please separate these items from other types of waste and recycle them responsibly to promote the sustainable reuse of material resources.

Household users should contact either the retailer where they purchased this product, or their local government office, for details of how and where to take these items for environmentally safe recycling. Business users should contact their supplier and check the terms and conditions of the purchase contract. This product and its electronic accessories should not be mixed with other commercial wastes for disposal.

**Statement of Compliance with EU Directives** - Hereby, Ceratech Accuratus Limited declares that this product is in compliance with the essential requirements and other relevant provisions of Directives, as applicable.

**Trademark Information** - The Bluetooth® word mark and logos are registered trademarks owned by Bluetooth SIG, Inc. and any use of such marks by Ceratech Accuratus Limited is under license. Other trademarks and trade names are those of their respective owners.

Mac, iOS, iPhone and iPad are registered trademarks of Apple Inc., registered in the U.S. and other countries.

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CE 0700

THE RECREATED   
sinclair

stream  
spectrum  
ZX  
ZX

Unlike all of the existing and pending recreated devices - which are 20th century solutions to a 21st century opportunity ... the Recreated ZX Spectrum is a 21st century solution to a 21st century opportunity.

The most successful recreated devices to date, epitomise the 20th century solution ... a fixed number of games embedded in the device and wires ... everywhere. Wires for power, wires to the screen ... usually fuzzy composite video ... and quite possibly wires to the controller too. In the nineties this was the only solution. In the noughties this may have been an acceptable solution. For the teenies ... this is just not good enough. HDMI is a must. Wireless is a must. Access to multiple sources of content is a must. Compatibility with phones and tablets ... as well as Macs, PCs ... even connected TVs ... is a must.

The Recreated ZX Spectrum (and the associated apps and web apps) offers all of this now. It's also adaptable to future ... as yet unforeseen ... developments. To us, creating a retro device doesn't mean copying retro concepts or employing retro tech. The original Sinclair ZX Spectrum was an innovation and we are determined that the Recreated ZX Spectrum be equally innovative.

Given this, please read the following information carefully as your preconceptions about what a recreated device can be, may be about to be dispelled.

To view a complete User Manual, please visit [RecreatedZXSpectrum.com](http://RecreatedZXSpectrum.com)

by Charlie Huxter

Version No. 1.1 17-09-2015

edited by Steve Wilcox and James Mckay

**User Manual (Quick Start)**

**IMPORTANT NOTICE:** The following factory settings are (or may be) applied to the Recreated ZX Spectrum (depending upon the variant).

- **Locked** to its 'Game Mode' (all 'Game Mode' functions available, limited 'QWERTY Mode' functions available - only keys 1 through 0, D and Enter are available).

- **Unlocked** (all 'Game Mode' functions available, all 'QWERTY Mode' functions available).

If the Recreated ZX Spectrum is **Locked** it can easily be **Unlocked** using the **FREE Recreated ZX Spectrum app** (or ONLINE web app). For a full description of all 'QWERTY Mode' functions available and for a full explanation of how to access them, go to [RecreatedZXSpectrum.com](http://RecreatedZXSpectrum.com) and download the complete User Manual.

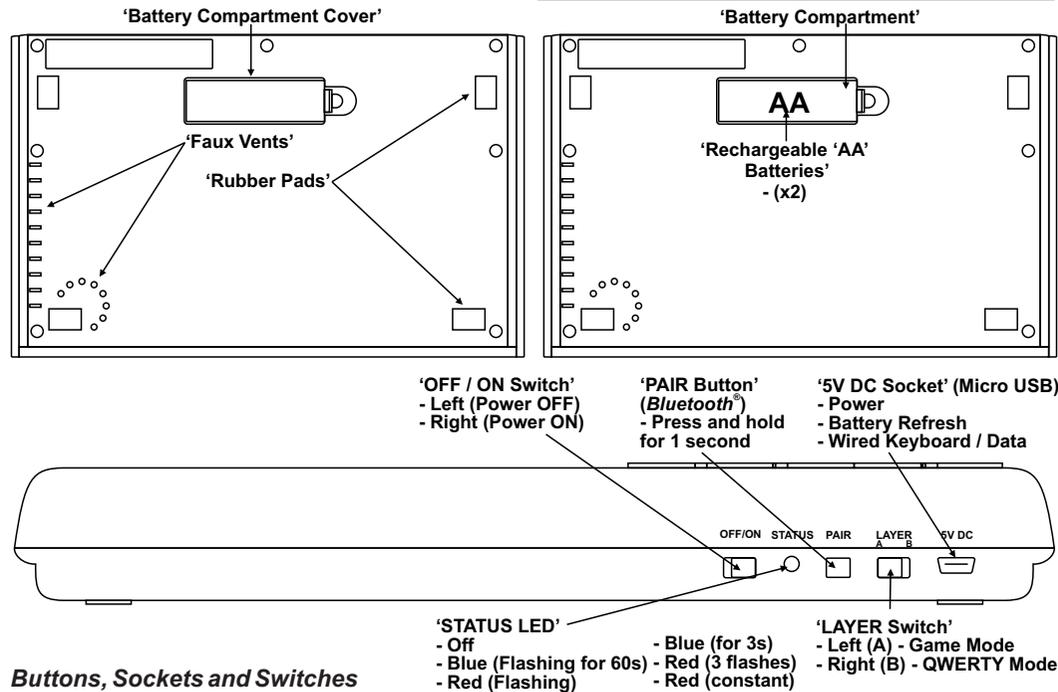
# 1 - The Recreated ZX Spectrum - At a Glance

## The Recreated ZX Spectrum - Overview

This User Manual (Quick Start) describes the Recreated ZX Spectrum for phones, tablets, Macs, PCs and (to a limited extent) connected TVs.

**IMPORTANT: BEFORE USING THE RECREATED DEVICE, PLEASE VIEW THE SHORT FILM - "OPERATING GUIDE". IT CAN BE FOUND AT [www.RecreatedZXspectrum.com](http://www.RecreatedZXspectrum.com)**

To download the complete User Guide please go to [RecreatedZXspectrum.com](http://RecreatedZXspectrum.com) or search online using the search term, 'Recreated ZX Spectrum'.



### Buttons, Sockets and Switches

Most of what you do with the Recreated ZX Spectrum will be done through the 40 keys of the **Rubber Keyboard**. A few physical buttons and switches control basic functions, such as turning on and turning off the Recreated ZX Spectrum and connecting it to other devices.

**OFF / ON Switch:** Use it to turn the Recreated ZX Spectrum OFF and ON.

**PAIR Button (Bluetooth®):** Use it to make the Recreated ZX Spectrum discoverable by other *Bluetooth®* devices.

**STATUS LED:** Use it to monitor the Recreated ZX Spectrum's status. **See complete User Guide for details.**

**LAYER Switch:** Use it to switch between the Recreated ZX Spectrum's 'Game Mode' - Left (A) and its 'QWERTY Mode' - Right (B).

**5V DC Socket (Micro USB):** Use it to power the Recreated ZX Spectrum (when no batteries are fitted), to refresh the batteries (when rechargeable batteries are fitted) and to use it as a wired keyboard or to connect it to an accessory.

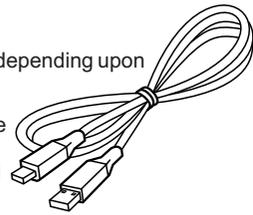
**WARNING:** Fit rechargeable batteries to avoid damaging the recreated device when the **5V DC Socket (Micro USB)** is in use. If in doubt, remove the batteries before connecting the **(USB) Cable**.

**Battery Compartment Cover:** Use it to access and to enclose the **Battery Compartment**.

## Accessories. What's Included? What Else Is Needed?

The following accessories are (or may be) included with the Recreated ZX Spectrum (depending upon the variant) or may be included as downloadable items.

**(USB) Cable.** The **(USB) Cable** is a USB to Micro USB connector. Use it to connect the Recreated ZX Spectrum to: power it (when no batteries are fitted), refresh the rechargeable batteries (when rechargeable batteries are fitted), use it as a wired keyboard or connect an accessory.



**User Manual:** The **User Manual** is a downloadable document and in addition to being an extension to this document it includes a re-print of the original Sinclair ZX Spectrum user manuals, 'Introduction Sinclair ZX Spectrum' and 'BASIC Programming Sinclair ZX Spectrum'. Use it to: improve your understanding of the features and benefits of recreated device and to learn how to program in Sinclair BASIC.

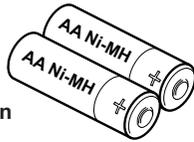
**FREE Recreated ZX Spectrum app:** The **FREE Recreated ZX Spectrum** app is a downloadable app.



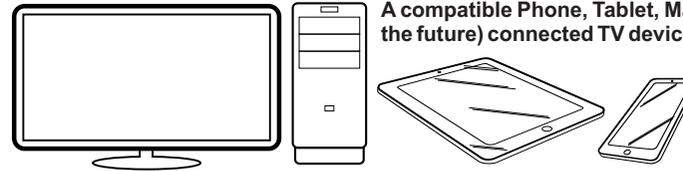
**RecreatedZXspectrum.com** → **Recreated ZX Spectrum ONLINE web app:** The Recreated ZX Spectrum ONLINE web app is available online. The app and the ONLINE web app include Chuckie Egg, Sinclair BASIC and a huge game bundle. New games are available with each update of the app and the ONLINE web app. Use them to: play games, program in Sinclair BASIC and access the recreated device's additional features and exclusive content.

The following accessories are (or may be) required to operate the Recreated ZX Spectrum (depending upon the variant).

**Rechargeable 'AA' Battery (x2).** Ni-MH recommended, (not included). Not required when the recreated device is being used as a wired USB keyboard.



**A compatible Phone, Tablet, Mac, PC or (now or in the future) connected TV device.**



## 2 - Getting Started

### Connecting to a compatible Phone, Tablet, Mac, PC or connected TV

To connect the Recreated ZX Spectrum to a compatible phone, tablet, Mac, PC or connected TV by **Bluetooth® (Wireless)**: Turn the Recreated ZX Spectrum ON. The **STATUS LED** will illuminate (blue) for approximately 3 second. Press and hold the **PAIR** Button for approximately 1 second. The **STATUS LED** will flash (blue). Whilst the **STATUS LED** is flashing (blue), the Recreated ZX Spectrum is discoverable by other *Bluetooth®* devices. Refer to the user guide provided with your compatible device for instructions on how to complete the connection. As soon as the Recreated ZX Spectrum is connected, its **STATUS LED** will stop flashing (blue) and it can be used.

If the connection is not complete within about one minute, the **STATUS LED** will stop flashing (blue) and the Recreated ZX Spectrum will no longer be discoverable by other *Bluetooth®* devices. If this happens, repeat the steps outlined above.

The Recreated ZX Spectrum features *Bluetooth®* 3.0 It supports Secure Simple Pairing and so does not require a PIN Code when pairing with other devices featuring *Bluetooth®* 2.1 and later.

**Note:** If you have difficulty completing the connection between the Recreated ZX Spectrum and other *Bluetooth®* devices, refer to the user guide provided with your compatible device for instructions on finding and adjusting its *Bluetooth®* settings. Once there, check whether Recreated ZX Spectrum or similar is listed. If it is, remove it. Then, repeat the steps outlined above.