Charlie's auto-mouse

Avoid computer or activity lock producing mouse or keyboard movements.

Requires a RP2040 board.

Works very nice with boards with two buttons and RGB activity LEDs.

@carlesoriol - Carles Oriol

Use

Connect the device to USB and it will start generating activities periodically.

Select activity with BOOT button.

Color	Device	Activity
OFF		Auto mouse generates no actions.
Blue	Mouse	Circles
Pink	Mouse	Long diagonal lines
White	Mouse	Very short diagonal lines
Red	Mouse	Random 2 phase movement
Green	Keyboard	Volume + -> Volume -
Yellow	Keyboard	Space key

Every change in the setup is stored automatically in "EEPROM" so it becomes the new default.

Pi Pico W

With Pico W, Bluetooth capabilities can be used to generate mouse movement. Just pair it and will work as any other mouse.

Bluetooth in this

2nd button

2nd button can be used to change the elapsed time between activities.

pin: 24

Blink	Time
1	15 seconds
2	1 minute
3	5 minutes

RGB color led

RGB color led requires a WS2812 BGR *(yes, BGR)* connected to pin 23.

Source code

Use Arduino RP2040 to compile the source.

https://www.github.com/carlesoriol/auto_mouse

Case

Model for Pi PICO W & RP2040 16Mb RGB LED look like an old Genius mouse.

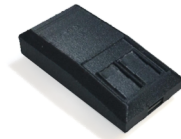Model for RP2040 16Mb RGB board requires to be printed with 105% size.

Figure 1: Mouse Image