

Supplementary Figure 1 - Graphical User Interface

A Raspberry Pi 0.99

CAMERA: ON/OFF, Resolution: 2592x1944, White balance: auto, Mode: none, color effect: none

Window size: 560, Horiz. Offset: 50, Brightness: 50

Digi Zoom: 1, Verti. Offset: 50, Contrast: 50

Binning: 0, FPS: 15, Exposure: 0

Rotation: 0, auto expos. (checked), Flip Image (unchecked)

TIME LAPSE: video (0 sec), timelapse (INTERVAL (sec)), photo (0)

B

LED 1: ON/OFF, zap in ms, ZAP!

LED 2: ON/OFF, zap in ms, ZAP!

MATRIX: OFF, Brightness, PATTERN 1, PATTERN 2, PATTERN 3

RING: Green flash (ON/OFF, zap in ms, ZAP!), Red flash (OFF, zap in ms, ZAP!), Blue flash (OFF, zap in ms, ZAP!), all

C

PELTIER: ON/OFF, set temp(C): 30, Auto Focus: 0, exit program, QUIT

temp(C): 165.28, Log temp? (unchecked)

D Protocols

LED1	OFF	OFF	OFF	OFF	OFF
LED2	OFF	OFF	OFF	OFF	OFF
Matrix	OFF	OFF	OFF	OFF	OFF
Ring	OFF	OFF	OFF	OFF	OFF
Red	0	0	0	0	0
Green	0	0	0	0	0
Blue	0	0	0	0	0
Peltier	OFF	OFF	OFF	OFF	OFF
Pelt temp(C)	25	25	25	25	25
Dur(ms)	250	250	250	250	250
Repetitions	2	IRI(ms)	125		
Camera	OFF			to AVI	RUN!