## **Video Tracking Stimulator**

model: VTS-4



VTS-4 Video Tracking Stimulator is literally a USB stimulator equipped with a video tracking function, developed for optogenetics experiment. By defining Zones on the video image from a general USB camera, it tracks an animal and outputs pulse trains defined by a dedicated software. Pluse trains can be easily designed by manipulating the stimulation parameters (Delay, Width, Interval, Number of Pulses, etc.) This also can be used as a PC controlled universal 4 channel stimulator. You can establish closed-loop optogenetic stimlation system by combining Teleopto or wired optogenetics system from any third parties.

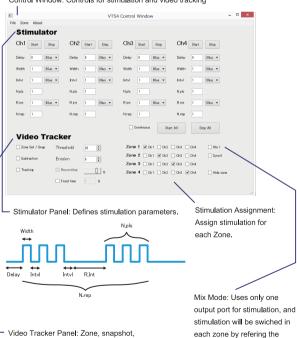


## Software

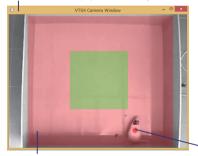
Control Window: Controls for stimulation and video tracking

detection threshold and erosion settings,

tracking on/off etc.

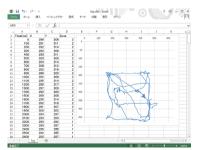


Camera Window: Display for camera images and Zones



Zones: Up to 4 zones can be defined as polygon by clicking the Camera Window.

> Track Mark: A red dot is put on the center of the animal detected by background subtraction.



Elapsed time, X & Y axis, Zone data can be recorded by ASCII. Tracks can be visualized by XY plot in Excel etc.

stimulation parameteres from

the same number of channel.