



Revolutionizing Behavior Research



Circling Module

Features:

- Left circling, right circling, or multi-directional circling
- For more discrete analysis of behavior, the user can constrain the radius of the circling. This allows TopScan to detect spinning around the hind legs
- Speed of circling can also be constrained to differentiate between fast or slow circling
- Additional features will allow the user to constrain the minimal rotation degree for one bout.

Circling Behavior is a stereotypy commonly displayed in animal models of neurodegenerative disease such as Parkinson's and Alzheimer's disease due to heavy metal damage or aggregation in motor areas.

Clever Sys Inc.'s (CSI), **Circling Module** is an independent module that can automatically detect repetitive **circling behaviors** in animal models. The module is designed to work under two specific conditions.

The first and most common scenario is an animal circling in a relatively large arena (such as an open field) where the animal appears relatively small compared to the environment. The second scenario is an animal circling in a relatively small environment (such as a cylinder) where the animal appears large in respect to the environment.

The **Circling module** is designed to work with CSI's TopScan Suite, LocoScan, etc. this is helpful when data points such as **distance traveled, speed, location, zone visits** etc. are important measures for a more complete analysis of behavior.

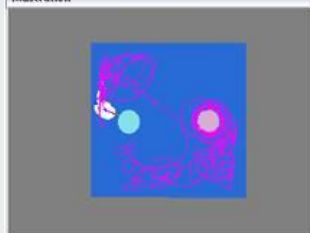
All CSI programs output data into Microsoft Excel, therefore, Excel is required to output data points.

Measures the Circling Module can provide

- Total duration of Circling
- Total # of Circles both left and right circling
- Total degree of both left and right circling
- The avg. circling radius of left and right circling



Illustration



Illustration

