BioRAS
Rapid Analysis Systems
for Biology and Life Sciences

LabTrack3D

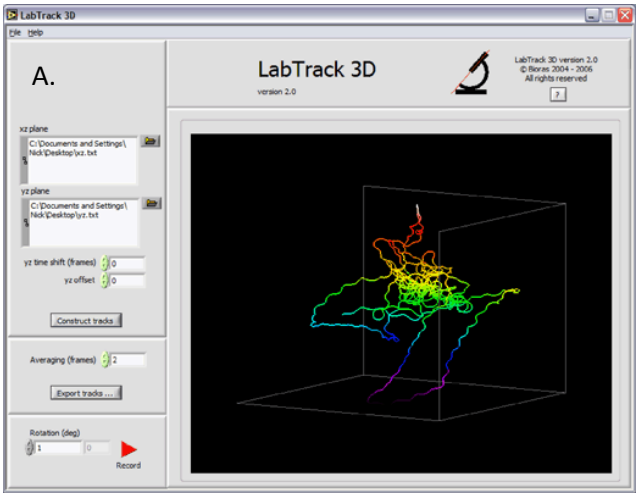
3D tracking of particle or organism movements

Description

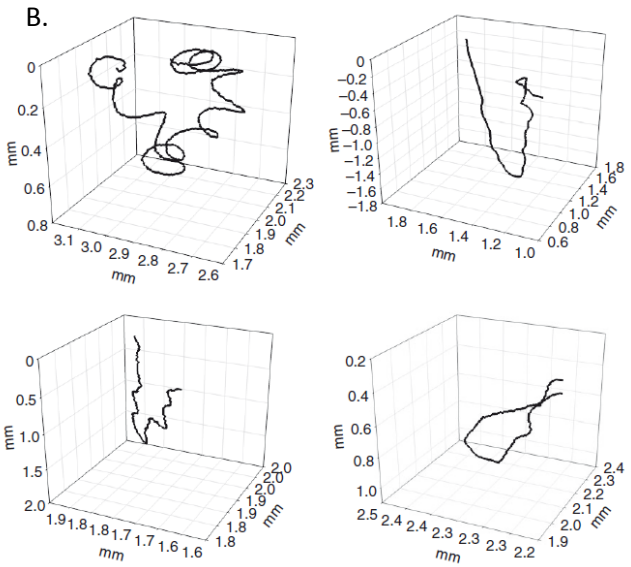
An optional three dimensional reconstruction utility can be used to analyze and display 3-D tracks from two video sequences taken with two perpendicular cameras. LabTrack3D is an add-on utility for LabTrack. Examples of use are analysis of insect behavior, zooplankton behavior, protozoan motility, swimming behavior of fish, bacteria swimming behavior and protein filament movement.

Features

- LabTrack3D reads 2 sets of 2DTracks created by LabTrack from 2 perpendicular cameras.
- An algorithm combines the two sets of 2D-tracks into 3D tracks, which can be viewed in a 3Dgraph.
- The Tracks can be viewed from all directions.
- The data, including velocity and acceleration can be exported in spreadsheet format.



A: The LabTrack3D front panel.



B: Swimming paths of polydora ciliata larvae in 3D. Graphs taken from “The Journal of Experimental Biology”, published by Hansen et al. in 2010. With kind permission from the authors.

Try LabTrack 3D for free

You can use LabTrack 3D for free during a trial period. You also have the option to send us a video clip, which we will analyze and send a report of the results back. This will provide an opportunity to test if LabTrack 3D is suitable for your application! Find more information, articles, and references about this and other BioRAS products at www.bioras.com

Contact BioRAS at:

Fruebjergvej 3, 2100, København • Denmark, Tel. +45 22678812, info@bioras.com, www.bioras.com