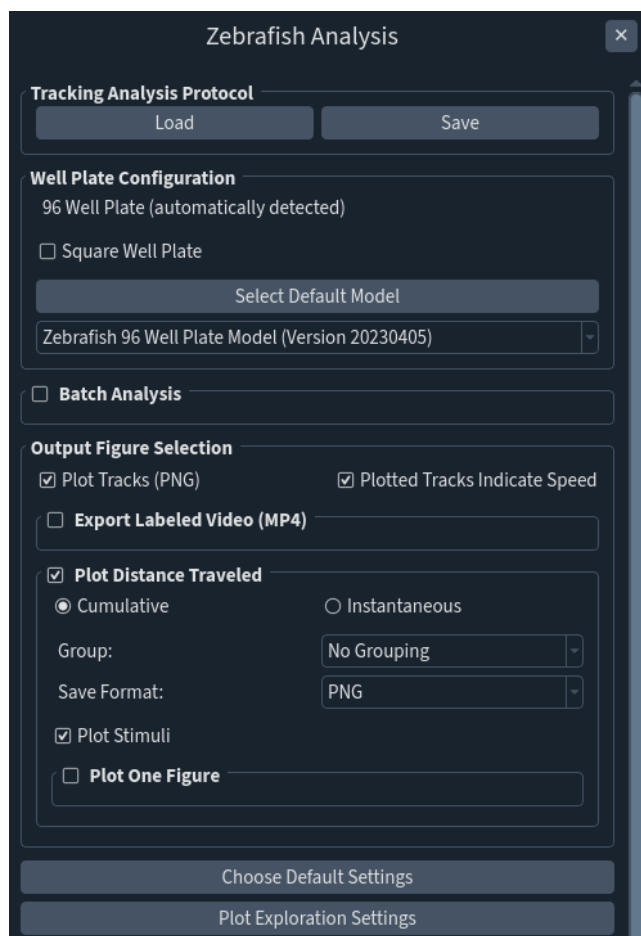


Tracking Analysis

This step uses the Well Alignment File from 1) Creating a Well Alignment File and the Compressed Data Folder from 2) Compressing the Original Data File to generate zebrafish tracking outputs.



Zebrafish Analysis

Tracking Analysis Protocol

Load Save

Well Plate Configuration

96 Well Plate (automatically detected)

☐ Square Well Plate

Select Default Model

Zebrafish 96 Well Plate Model (Version 20230405)

☐ Batch Analysis

Output Figure Selection

☒ Plot Tracks (PNG) ☒ Plotted Tracks Indicate Speed

☐ Export Labeled Video (MP4)

☒ Plot Distance Traveled

☒ Cumulative ☐ Instantaneous

Group: No Grouping

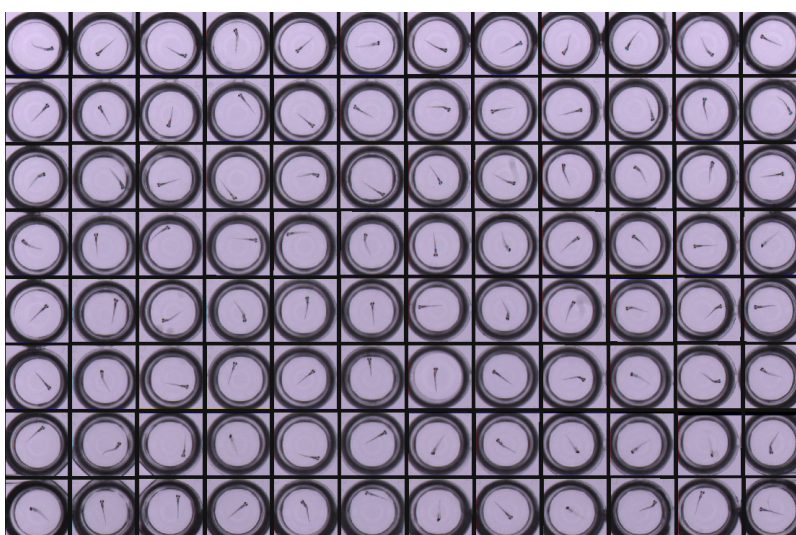
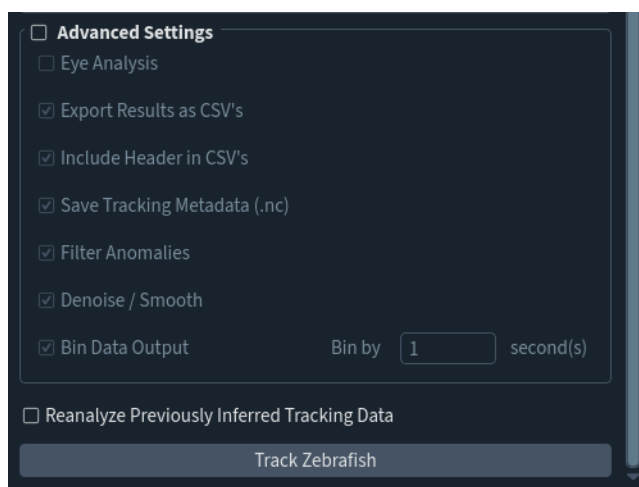
Save Format: PNG

☒ Plot Stimuli

☐ Plot One Figure

Choose Default Settings

Plot Exploration Settings



Single File Tracking

Step	Function
1	Go to File > Open File. A popup for folder selection will appear. Click into the Compressed Data Folder of interest, then click Open in the popup to open Compressed Data Folder in MCAM Viewer
2	Go to Assays > Animal Tracking to open Zebrafish Analysis panel. Well plate configuration (96-, 24- or custom 12-well) will be automatically detected by MCAM Viewer.
3	If the Compressed Data Folder to be analyzed is a square well plate, check the

	box labeled Square Well Plate.
4	If not all are necessary, check the box labeled Advanced Settings and uncheck boxes beside undesired Zebrafish Tracking Outputs to skip generation.
5	Click Track Zebrafish to generate Zebrafish Tracking Outputs

Batch File Tracking

Batch file tracking allows the user to generate zebrafish tracking outputs for multiple Compressed Data Folders at once.

All files to undergo batch tracking must share a Well Alignment File.

Step	Function
1	Go to File > Open File. A popup for folder selection will appear. Click into a Compressed Data Folder of interest, then click Open in the popup to open Compressed Data Folder in MCAM™ Viewer.
2	Go to Assays > Zebrafish Assay to open Zebrafish Analysis panel. Well plate configuration (96-, 24- or custom 12-well) will be automatically detected by MCAM™ Viewer.
3	If the Compressed Data Folder to be analyzed is a square well plate, check the box labeled Square Well Plate.
4a	In the Zebrafish Analysis panel, check the box labeled Batch Analysis.
4b	Select Add Files to add folders to list to track. Only add files compressed using the same Well Alignment File.
4c	If not all are necessary, check the box labeled Advanced Settings and uncheck boxes beside undesired Zebrafish Tracking Outputs to skip generation.
5	Click Track Zebrafish to generate Zebrafish Tracking Outputs
6	The results are stored in a subfolder of the data containing folder. To learn more about the different outputs, please refer to the MCAM User Manual