Open Video Recorder > Experiment. The live view in shown in the video preview area (9, arrow), and you can adjust the camera settings in the the settings panel (9, arrow).

In the settings panel:

- Camera: Shows the name of the camera. Other connected cameras can be selected from this list.
- Frame rate [fps]: Shows the frame rate you want to record at. Note that the actual frame rate (Current frame rate) may differ from this value.
- Horizontal AOI: Adjust the horizontal area of interest (AOI). Click and drag each slider handle to reduce the area, and click and drag on the slider line to move the area.
- Vertical AOI: Adjust the vertical area of interest. Click and drag each slider handle to reduce the area, and click and drag on the slider line to move the area.
- **Current resolution:** Shows the resolution of the video. These values will change when the AOI sliders are adjusted.
- Sync with: Select another connected camera from this list to start simultaneous recordings from both cameras.

The video file data are shown below the video preview area (9, arrow):

- Recorded time [hh:mm:ss.ms]: Shows the recorded time of the current video.
- Current frame rate [fps]: Shows the frame rate the video is being recorded at. Note that the current frame rate may differ from the set Frame rate (see below).
- **Captured frames:** Shows the amount of captured frames in the video.
- Missed frames: Shows the amount of missed frames in the video.

Adjusting frame rate. Start by adjusting the frame rate to match your application. A higher frame rate requires more processing power, which can lead to missed frames. A higher frame rate also requires more light on the filmed object, so increasing the frame rate will decrease the video exposure.

Adjusting AOI. Now adjust the horizontal and/or vertical AOI sliders to crop the video image to match your application. A more narrow AOI will increase recording performance, so preferably the AOI should be as close as possible to the area in which the object can move around (9, Cropped AOI). Click and drag on the slider handles to reduce the AOI, and click and drag on the slider line to move the AOI. The video preview may freeze shortly between each AOI adjustment.

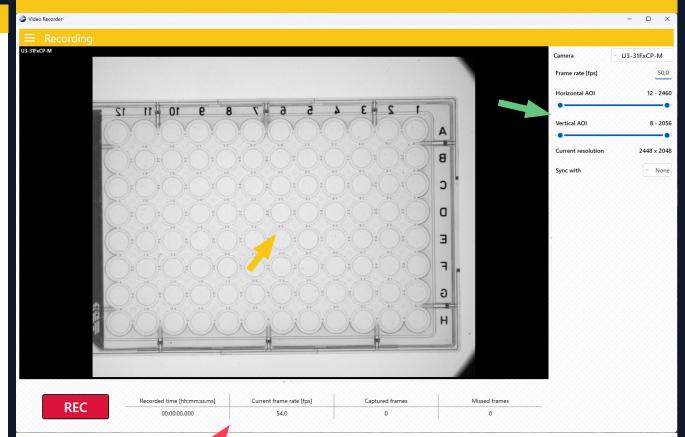
Start recording. Click the *Start recording button* to select where to save the .avi video file. The video file should be saved to a local drive on your computer as saving to a synchronized drive (like OneDrive) can cause problems.

Recorded videos can be analyzed in our video tracking and behavior software, LoliTrack v5.

Missed frames or low current frame rate? If you get missed frames in your recordings, or if your Current frame rate does not meet the set Frame rate in the settings panel, it means that your computer is not able to process the frame rate at the given resolution. In this case, please consider:

- That the camera is connected to a USB >3 port.
- That you are not running other software or services on your computer that limits its performance.
- To lower the frame rate in the settings panel.
- To reduce the resolution using the AOI sliders in the settings panel.

Editing videos. Main menu > Edit video. Load a video file and follow the instructions in the lower part of the settings panel to edit the video before exporting. Change the exported frame rate, if necessary, and then click Export video to export the video as an .avi file



Cropped AOI

