

Process Description:

“Detection” takes in the image sequence(s) of interest, identifies the objects in each image, and returns information such as object positions and intensities.

Input Channels:

Irrelevant for U-Track for now, since even if a movie contains several channels they should be analyzed independently as independent movies.

Detection Method:

From the dropdown menu, choose which detection method you would like to use:

“**Sub-resolution Object Detection**”: Use this algorithm to detect sub-resolution objects, e.g. single molecules or small molecular aggregates that are smaller than the diffraction limit (i.e. ~200 nm).

Currently this is the only option, but we plan to add more options in future releases.

Choose “**Apply settings to all movies**” if you are analyzing multiple movies and you want to analyze them all using the same parameter settings. NOTE: Do not choose this option if you plan to use absolute background information (see detection parameters under “Setting”), since each movie should have its own background images.