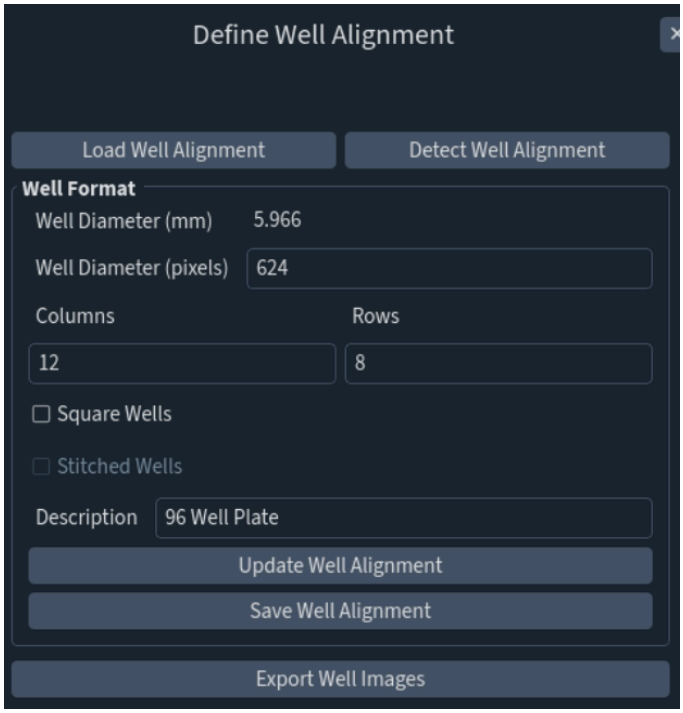
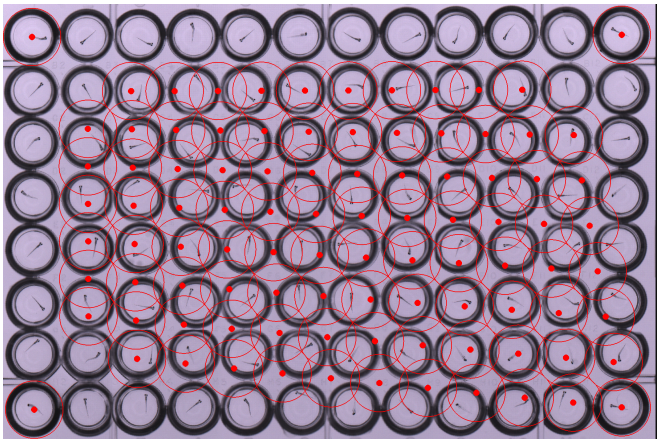
Create a Well Alignment File

This step creates a file that will be used to detect well plate wells for analysis.





Step	Action
1	**Open .nc dataset file** in MCAM Viewer or **open** the MCAM Software
2	**Go to Tools > Well Alignment** to open Well Alignment Panel
3	Under Well Format, **enter values** into Columns, Rows, and Well Diameter (pixels) fields for well plate depicted in open .nc dataset file that correspond to values in

	Table 1: Well Plate Configuration below Upon entry of the above, Well Diameter (mm) field will auto-update
3a	If well plate contains square wells, **check the box** beside Square Wells
4	**Click Detect Well Alignment.** Well Indicators will now appear. To create Well Alignment File for tracking, Well Indicators must be aligned with wells
5	Well Indicators may not be aligned with wells after Step 4. If so:
5a	**Double click on center point** each of the 4 corner Well Indicators, hold, and drag into alignment with each of the 4 corner wells.
5b	In Well Alignment panel, **click Update Well Alignment** to align remaining Well Indicators
5c	**Make individual well adjustments** by clicking and dragging any misaligned Well Indicators to correct locations and clicking Update Well Alignment.
5d	To simultaneously resize all Well Indicators, **double click on any Well Indicator boundary, hold, and drag**
6	**Click Save Well Alignment** in the Well Alignment panel to save the Well Alignment File.

Table 1: Well Plate Configuration
The metrics in this table describe common well plate configurations. The MCAM uses them to detect well locations in a .nc dataset file. **Note:** For use with tracking workflows, well diameters must match the specified values. *Pixel widths that do not match these values are not supported, and data sets collected with incorrect values will not be successfully analyzed.*

Table 1 - Creating a Well Alignment File: Well Plate Configuration			
Well Plate Configuration	**Columns**	**Rows**	**Well Diameter (pixels)**
96-well plate	12	8	1024
48-well plate	8	6	1408
24-well plate	6	4	2048

12-well plate (Ramona custom well plate)	3	4	2056