- 1. Go to "Edit" and select any well type
- 2. Click "New" and rename it as "Flexible multiple ROI"
- 3. Set the conditions as in the screenshot below. "Spacing" is not important and "Well width/Height" should be set between 333um (40x Objectives) and 1300um (10x Objectives). Standard value of 1000um will always work.
- 4. Set also the Well bottom properties. For robustness, if you are working with a slide, unclick "Use always..." and set the thickness to 170um and Refr.index to 1.59



5. Click calibrate A1



6. Click measure



7. Move with the stage to the first ROI (FOV) you want to image and click OK



8. Click Measure again to select the second ROI you want to image. Perform this as many times as ROIs you want to measure.



9. Once you have selected all the ROIs you want to measure, click Save



A1 position (for autoloader robot)

10. Click Ignore, if you are not using a Robot

11. Click OK

🦉 🥮 Plate Type Settings

	Туре			
H Slide	 Flexible mu 	ultiple ROI	A1 position calibrated	
st				
Algae TN	Pattern	Spacing	Well geometry	Pattern(s) position
test Slide			;	
n specific2	Columns	Column [um]	Shape	
e test Slide 20xPH	Columns	Column (pin)	Rectangle -	2-point A1 measurement
96W Plate 1 Test		9000 -	+ Rectangie +	A1 center position only
90W Plate T Test 4x	Rows	Pow [um]	Well width [um]	
			topo	Calibrate A1
nispecific		9000 -	+ 1000 - +	
ning 90W	Repetition		Height (um)	Use the measurement result
	2		1000	always for this well plate type
tragen Slide			1000 - +	
Vien Dish				
96W Plate 4				
e 4 Slides Single	Well bottom			
Wien Dish SingleDron	. Wein Bottom			
Well PS AKH				
Itiple ROI	Plate bottom prope	erties	Offset and position	calibration
xible multiple ROI				
	Thickness [µm]	Refractive in	dex z-offset [µm]	
	170 -	+ 1.59	- + 107 - +	Calibrata 7
		Lower surface	l ower surface	
		variation [um	nosition [um]	
				Use always for this
		+/- 250	- + 2440 - +	well plate type
	Plate loader			Border thickness (objective sec
	Cain with trans	Onin Indialat farm	.	
	Grip width [mm]	Grip neight [mm		X Border [um]
	0.0 - +	0.0 -	±	
	Stacked height (mm	1		
	Stacked height [min	u		
	0.0 - +			
>	Lid grip width [mm]	Lid arin height (mml	
	0.0 - +	0.0 -	•	
New Delete				

12. Check the ROI pattern you have generated. You can Zoom it in for deeper look

Plate Manager W-Autofocus Acquisition	
Well pattern	
Well pattern	
Left click to toggle wells on/off	Q *
Mouse-drag (+ Ctrl) to select (deselect) wells	skip
Meander wells Wells selected 3 Continuous ZDC Well width [µm] 1000	
Plate AKH_6Well_CountCells Edit selection table Type	
Calibration status: A1 position calibrated	

13. You can check the FOV with respect to the ROI in this Window. There can be a mismatch depending on the settings of the well width, set on step 3 before.

14. Normally,
you only image a
Single point but
you can increase
this number if
necessary,
depending on
the real ratio of
the ROI and the
FOV

15. Click OK



15. Now you can start the scan and check the different ROIs.

