Initiate the camera

⬇

**Overlay the trapezoid box on the camera view
Show 3 operation buttons on the screen**

Focus button click? ⬇ Yes

Lock auto-focus and auto-exposure

Reference button click? ⬇ Yes

**Take a reference image; Select the areas of interest;
Save average green pixel intensities; Trigger 30 s timer**

Signal button click? ⬇ Yes

**Take a signal image; Select the areas of interest;
Save average green pixel intensities**

⬇

**Calculate the normalized scatter intensities; Calculate and
display the bacterial concentration using standard curve**