

invitrogen

# Countess™ 3

## Automated Cell Counter

### Quick reference

Cat. No. AMQAX2000/AMQAF2000 | Pub. Part No. 100097266 | Pub. No. MAN0019513 | Rev. A.0

## Gather your materials



Reusable slide

Or



Disposable slide



Invitrogen™  
Trypan Blue stain

Or



Invitrogen™  
ReadyCount™ reagent



Single-channel  
pipette (2-20 µL)



Light cube  
(Optional)

#### Limited product warranty

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Find out more at [thermofisher.com/countess](http://thermofisher.com/countess)

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# Countess 3

## 1 Prepare and load sample

Trypsinize cells, add necessary reagents, and load 10  $\mu$ L of sample onto a disposable or reusable slide.

## 2 Insert slide

Select a desired protocol and load your slide into the system (push to click). Use the **Rapid Capture** option to bypass step 3.

## 3 Set up cell count

Select your desired channels for capture and press **Count**.

## 4 View and gate results

Use  to gate on size.  
Use  to gate on brightness.  
Use  to gate on circularity.

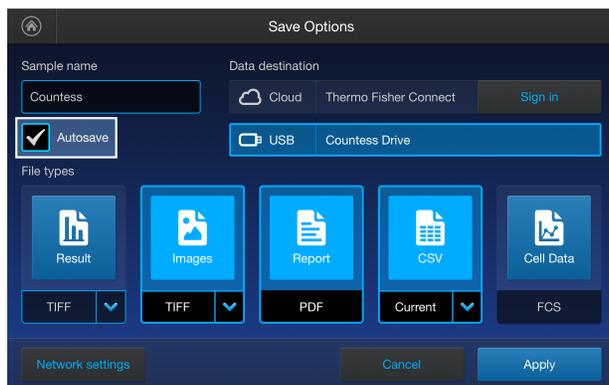
## 5 Save data

Select your save file types and data destination(s).

## Speed up your workflow

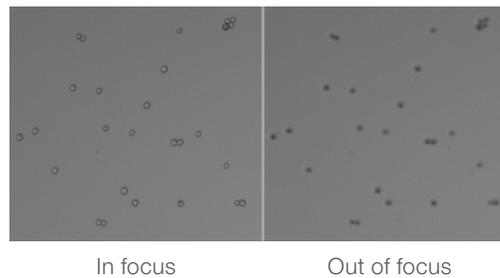


- 1 Select **Sign in** to link your Connect account to your Invitrogen™ Countess™ 3 Automated Cell Counter.
- 2 Select **Save options** from the Countess 3 system home screen to access autosave.
- 3 Select **Rapid capture** to bypass image setup and quickly count your slide.

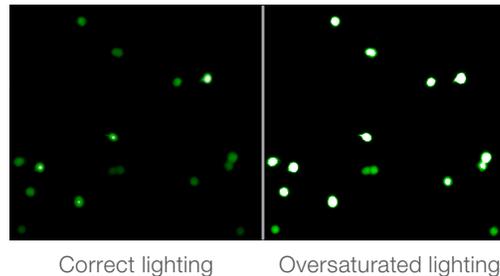


Check **Autosave** to enable saving automatically after a count is run.

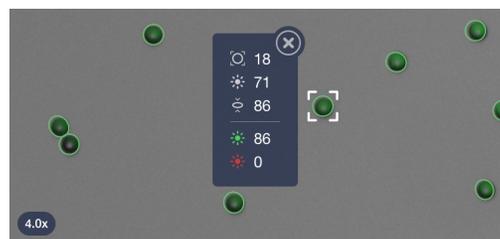
## Focus



## Saturated pixels

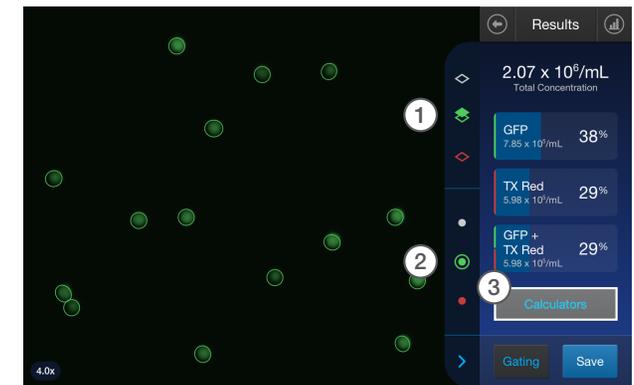


## Cell information

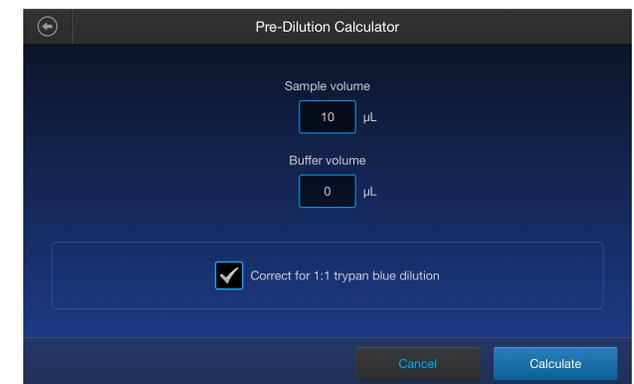


Pinch to zoom in on your cell of interest. After counting, tap on a cell to see its measurements.

## View your results



- 1 Use  to turn the channel layers on and off.
- 2 Use  to turn the cell contours on and off.
- 3 Select **Calculators** to apply pre-dilution and cell splitting calculations to your sample.



Select **Pre-Dilution** to apply dilution that was added to your sample before counting.  
Select **Cell Splitting** to assist you in replating your desired concentration of cells.