

VWR®

# Automated cell counters

01. SIMPLICITY

02. ACCURACY

03. AFFORDABILITY

04. TIME SAVINGS



SAMPLE  
PREPARATION  
AND LOAD

INSERT  
COUNTING  
SLIDE

CELL  
COUNTING

PROFILE  
SETTINGS

SAVE  
RESULTS

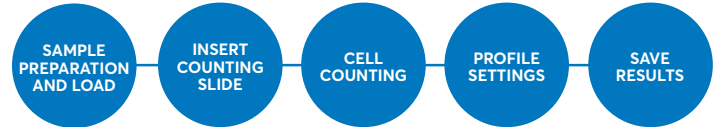
# VWR® Automated cell counters

Save time and reduce variability with the VWR® automated cell counter and VWR® automated cell counter Fluo. Intelligent image recognition and advanced optical imaging technology ensure accurate cell analysis as well as cell concentration and size determination for a wide range of cell sample types.

These machines pack a variety of features into a compact design made to fit virtually any workspace.



– **Simplicity:**



– **Accuracy:** Advanced algorithm enables fast recognition of clustered cells and flexible parameters setting include circularity, diameter and brightness will exclude debris and impurities

– **Affordability:** Brightfield Cell counter or Upgradable Fluo Cell counter compatible with affordable single use counting slides

– **Time savings:** Features like rapid capture and autosave quickly generate and save your results

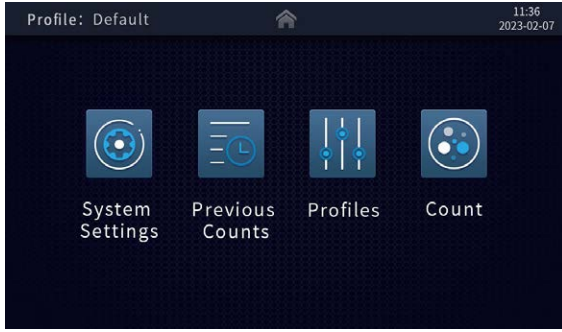
**SPECIFICATIONS**

- Wide application: cell counting, cell viability, AO/PI staining, cell transfection efficiency, cell expression
- All-in-one machine with a compact design
- Dual-channel option for the VWR® automated cell counter Fluo
- Three interchangeable fluorescent cubes (green, blue, red)
- Cell counting slide consumables with two chambers

- Accurate cell identification in only 9 seconds
- User-friendly interface
- Adjustable parameters (focus, brightness, cell size range, roundness range)
- Data recording system can save more than 1000 counting reports

Specifications	VWR® Automated Cell Counter	VWR® Automated Cell Counter Fluo
Brightfield	Yes	Yes
Fluorescence option	No	Yes - upgradable (two interchangeable fluo cube channels)
Fluo cube colors	No	Green, Red, Blue
Counting time manual	5s'	5s'
Counting time auto focus	9s'	9s'
Imaging parameters	Auto focusing & Manual focusing / 5 megapixels, 2.5x Optical Magnification	Auto focusing & Manual focusing / 5 megapixels, 2.5x Optical Magnification
Compatible Dyes	Trypan blue	Trypan blue, AO, PI, GFP , DAPI
Application	Cell counting, Cell viability, Cell size - brightness and circularity	Cell counting, Cell Viability, Cell size - brightness and circularity, Transfection efficiency, AO/GFP, DAPI, PI cell RFU
Counting clumps, not debris	Yes	Yes
Counting range (cell density)	10 <sup>4</sup> -10 <sup>7</sup>	10 <sup>4</sup> -10 <sup>7</sup>
Cell size range (µm)	4-60	4-60
Sample volume (µl)	10	10
Pre-dilution calculator	Yes	Yes
Cell splitting calculator	Yes	Yes
Gating	Yes	Yes
Cell imaging and histogram	Yes	Yes
Disposable consummable	2 samples slide	2 samples slide
Counting PBMCs	Yes	Yes
CV (Hela Cell) - accuracy	< 5%	< 5%
Calibration	No calibration	No calibration
Display	7" Capacitive touch screen	7" Capacitive touch screen
IT compatibility	Double USB	Double USB
Output data	JPG, TIF, PDF, CSV, BMP, PNG	JPG, TIF, PDF, CSV, BMP, PNG
Built-in memory	1,000 counting reports	1,000 counting reports
Standalone	Yes	Yes
Ordering information	49862-2000	49893-2000

VWR® AUTOMATED CELL COUNTERS INTERFACE



MAIN INTERFACE

VWR® automated cell counters feature a user-friendly interface including easily accessible icons for:

- System Settings
- Previous Counts
- Profiles
- Count



MODE SELECTION

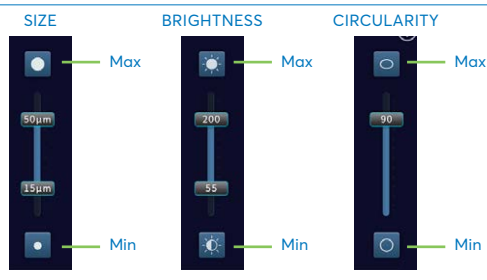
VWR® automated cell counters have three different modes :

- **[Non-TP] mode:** Count total cell concentration, obtain the total cell size distribution histogram and average diameter
- **[TP] mode:** Count total cell concentration, dead/live cell concentration and proportion, obtain the size distribution histogram and average diameter of dead/live cells
- **[FL] mode:** Count total cell concentration, different fluorescent cell concentration and proportion, obtain the total cell size distribution histogram and RFU distribution

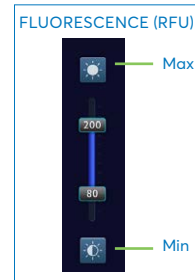


SETTINGS

Non-TP and TP mode



FL mode



ORDERING INFORMATION

Description	Display	Pk	Cat. No.
<b>Cell counters</b>			
VWR® automated cell counter	7" capacitive touch screen, Brightfield	1	49862-2000
VWR® automated cell counter Fluo	7" capacitive touch screen, Brightfield, fluorescent	1	49893-2000
<b>Consumables for VWR® automated cell counters</b>			
VWR® cell counting slide (2 samples/slide)		50	10228-0050



INTERCHANGEABLE FLUO CUBES

VWR® automated cell counter Fluo dual channel:

detachable building block design enables easy installation and replacement of the fluorescent cubes. Fluorescent cubes sold separately.

Description	Compatibles Dyes	Excitation (nm)	Emission (nm)	Pk	Cat. No.
<b>Fluo cubes</b>					
VWR® Fluo cube blue	DAPI, Hoechst, BFP	375/28 nm	460/50 nm	1	49893-4950
VWR® Fluo cube green	Acridine orange(AO), Calcein-AM, Alexa Fluor 488, SYBR green, FITC, GFP	480/30 nm	535/40 nm	1	49893-4951
VWR® Fluo cube red	Propidium iodide(PI), DsRed, dTomato, RFP	540/25 nm	620/60 nm	1	49893-4952



# Setting science in motion to create a better world

 **avantor**<sup>™</sup>  
delivered by **VWR**<sup>™</sup>

[VWR.COM](https://www.vwr.com)

Prices, product, and/or services details are current when published and subject to change without notice. | Certain products or services may be limited by federal, state, provincial, or local regulations. | VWR, part of Avantor, makes no claims or warranties concerning sustainable/green products. Any claims concerning sustainable/green products are the sole claims of the manufacturer and not those of VWR International, LLC and/or Avantor, Inc. or affiliates. All prices are in US dollars unless otherwise noted. Offers valid in US and Canada unless otherwise noted, void where prohibited by law or company policy, while supplies last. | Trademarks are owned by Avantor, Inc. or its affiliates, unless otherwise noted. | Visit [vwr.com](https://www.vwr.com) to view our privacy policy, trademark owners, and additional disclaimers. © 2024 Avantor, Inc. All rights reserved.