



Scepter™

Handheld Automated Cell Counter

User Guide



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00110230TP1, Rev. E, 02/13

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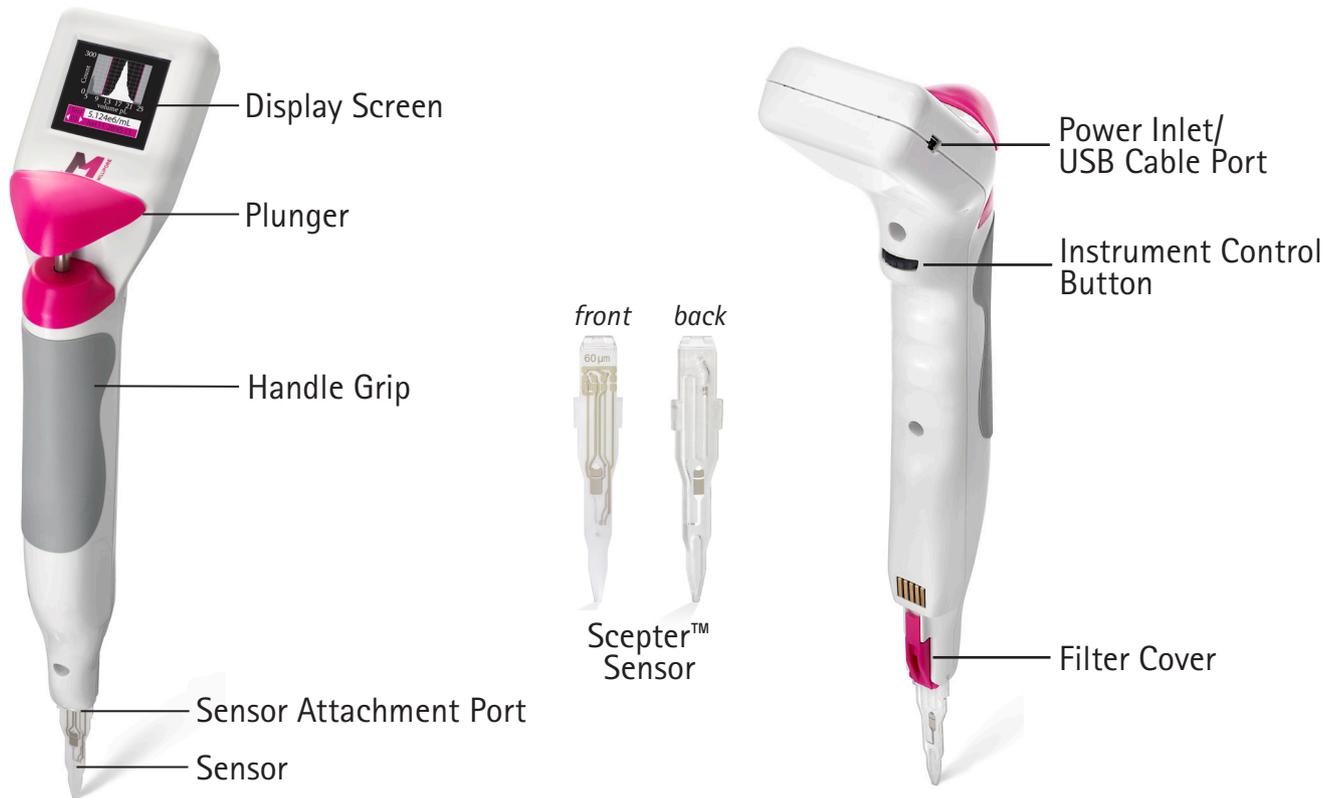
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Introduction

EMD Millipore Corporation's patent pending Scepter™ Handheld Automated Cell Counter provides a fast and convenient method for counting cells or particles with a disposable sensor. The system utilizes the Coulter principle in a miniaturized, handheld, pipette-like format that allows rapid cell counting; what used to take 10 minutes now takes about 30 seconds. The cell culture of interest is diluted, then sampled by the system. Cell concentration, cell volume, and cell diameter are displayed on the Scepter™ Cell Counter screen, along with a histogram. Up to 72 histograms can be stored in the instrument, and if desired, uploaded to a computer with the supplied software. This system is intended for research use only and has been tested with cell types representative of those in use today.

Scepter™ Handheld Automated Cell Counter Parts and Functions

The Scepter™ Handheld Automated Cell Counter system includes a counting instrument, Scepter™ Sensors, USB cable, and test beads. Software is downloadable from the internet.



Part

Display Screen

Plunger

Handle Grip

Power Inlet/USB Cable Port

Instrument Control Button

Sensor Attachment Port

Sensor (sold separately)

Filter Cover

USB Cable (not shown)

Test Beads (not shown)

Function

Displays all information needed for operation. Displays histograms with cell volume, concentration, and diameter.

Activates cell counting and assists in data management.

Allows comfortable handling of the instrument.

Connects instrument to USB cable.

Turns instrument on and off. Controls selections and scrolls to choose Cell Counter functions.

Insertion port for sensor.

Disposable sensor for counting cells.

Removes for cleaning of instrument filter.

Connects instrument to computer or optional universal power adapter.

Polystyrene beads for confirming proper system operation.

Symbols Used in this User Guide

The following symbols are used throughout this user guide and/or on product labels, and the user shall abide by indicated requirements:

Symbol	Definition
	Warning alerts you to actions that may cause personal injury or pose a physical threat.
	Do not discard with common solid waste at end of life. Segregate with other waste electrical and electronic equipment (WEEE) and send to an appropriate facility for recycling. For information on recycling electrical and electronic products in the European Union, please visit www.millipore.com/weee .
	Affixed in accordance with European Council Directives 2004/108/EC, (electromagnetic compatibility) and 2006/95/EC (safety requirements).
	Safety tested and certified by TÜV SÜD® Product Service Division.

Safety Precautions

Review and understand the safety instructions below before operating the Scepter™ Cell Counter.

WARNINGS:

- To avoid danger of electric shock, do not install the instrument in an area with a high humidity level, such as a greenhouse or an incubator. Refer to Operating Environmental Conditions in Specifications section.
- Do not touch the USB cable or universal power adapter plug with wet hands.
- To avoid potential shock hazard, choose the correct plug configuration and make sure that the USB cable/power adapter is plugged securely into a properly grounded AC power outlet. Make sure that the connection between the USB cable and the instrument is secure.
- Always ensure that the power supply input voltage matches the voltage available in your location.
- Do not use with flammable or explosive liquids.
- Do not immerse instrument body in liquid, or allow liquid to enter any part of the instrument.

CAUTIONS:

- Do not expose instrument to vibrations. Vibrations may cause instrument malfunction or damage.
- Do not autoclave or expose to high temperature.
- To avoid damage to internal electronic components, do not spray instrument with sanitizing agents. Refer to Maintenance and Storage section for sanitizing information.
- Use only authorized accessories (universal power adapter, USB cable).
- If the instrument is broken or dropped, disconnect the USB cable and contact Technical Service. Do not try to disassemble the instrument.

Installation

At least 3 hours before intended use, unpack the instrument, insert USB cable into Power Inlet/ USB Cable Port, and connect cable to computer or power adapter (sold separately as catalogue number PHCCPOWER). If using power adapter, choose correct plug configuration and plug cord into AC wall outlet.

The battery will fully charge in 3 hours. **DO NOT** try to use the system while the battery is charging. When not in use, the instrument should be connected to a charging source so that the battery will maintain a continual charge and be ready for immediate use.

Note: The Scepter™ Handheld Automated Cell Counter is designed to operate on battery power only, and should hold a charge for at least 72 count cycles. If **WARNING - Low Battery** appears on the display screen, stop using the instrument and charge the battery.

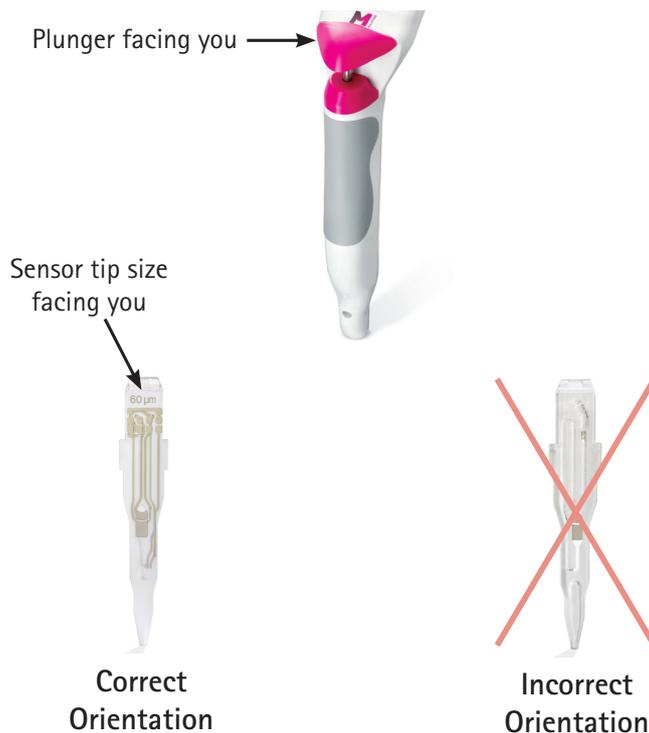
ALWAYS disconnect the Cell Counter from the power adapter or computer before using it. Leaving the Cell Counter plugged in during use may cause undesirable electrical noise and result in unstable readings.

Battery cannot be replaced by user. For more information, contact Technical Service.

Once charged, the Cell Counter is ready to use.

General Guidelines

IMPORTANT: Please ensure that Scepter™ sensors are oriented correctly before inserting them into the cell counter. With the cell counter plunger facing you, insert the sensor with the printed tip size (40 or 60 μm) facing you. Inserting the sensor backwards will cause serious damage to the instrument and this damage is not covered under warranty.



General Guidelines, continued

The Scepter™ Handheld Automated Cell Counter can be used with either a 60 µm sensor or a 40 µm sensor. Refer to the Specifications section for information on sensor operating ranges. Depending on the sample being counted, some user optimization may be required.

The sample volume must be at least 100 µL.

Prepare dilutions in a 1.5 mL microcentrifuge tube. Other tubes may not be able to accommodate the width of the sensor, or provide sufficient sample depth for the instrument to function properly.

Use a diluent compatible with the characteristics of cells. The diluent used should not cause changes in the cell size and should have sufficient conductivity to enable operation of the instrument. Recommended diluents include PBS with or without calcium and magnesium. Water, hypotonic, or hypertonic solutions are not acceptable diluents.

Note: Detergents may interfere with counting; 10% DMSO is not an acceptable diluent, but 1% DMSO may be used.

Serum-enriched media may also interfere with counting. Dilute samples with PBS rather than serum-enriched media.

Materials Required

Cell sample

1.5 mL microcentrifuge tubes

Scepter™ Sensors

PBS or other appropriate diluent

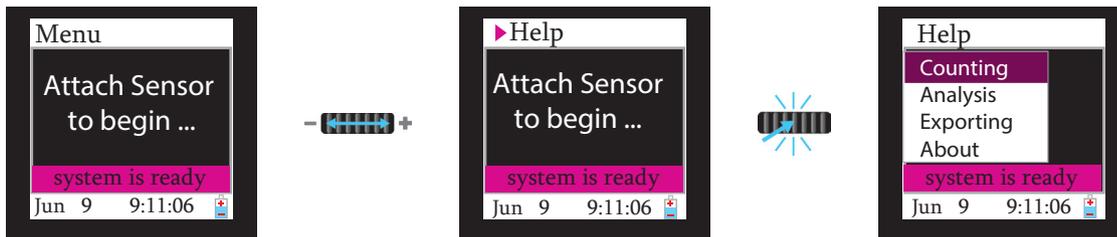
How to Use the Scepter™ Handheld Automated Cell Counter

The instrument control button operates by clicking (pressing the button in) and scrolling (moving the control button wheel left or right). To choose an option from a menu, scroll to that option and click the control button. To turn the Cell Counter on and off, click and hold the instrument control button on the back.

The following symbols will help guide you through the instrument control screens.

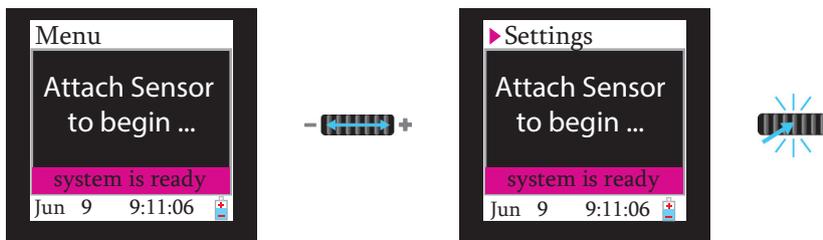


Help screens are available by turning the instrument on and scrolling to **Help** from the **Menu** screen. Scroll to the topic of interest, click the control button, then scroll to advance through the help screens.

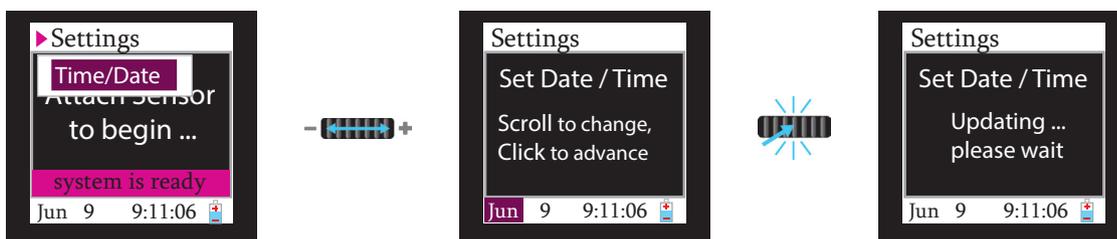


Date and Time Setup

1. Turn the Cell Counter on and the **Attach Sensor to begin** screen will be displayed. Scroll the instrument control button until **Settings** is displayed.



2. Click on **Settings**, then click on **Time/Date**. The **Month** at the bottom of the screen will be highlighted in purple. Scroll to adjust the month and save your choice by clicking the control button. Repeat this procedure to set **Day** and **Time**. After all parameters have been updated, the screen will display **Updating...please wait**, then return to the **Menu** screen.



Display Setup

The histogram can be displayed in either cell volume in pL or cell diameter in μm .

1. To change the display, scroll the instrument control button until **Histograms** is displayed. Scroll and click to choose **Options**.
2. Scroll and click to choose **Display**, then scroll and/or click to choose **Diameter, μm** or **Volume, pL**.

Note: In the Axis Display screen, the two options may appear in different order, depending on the last choice (i.e., Diameter, μm will not always be the first choice).

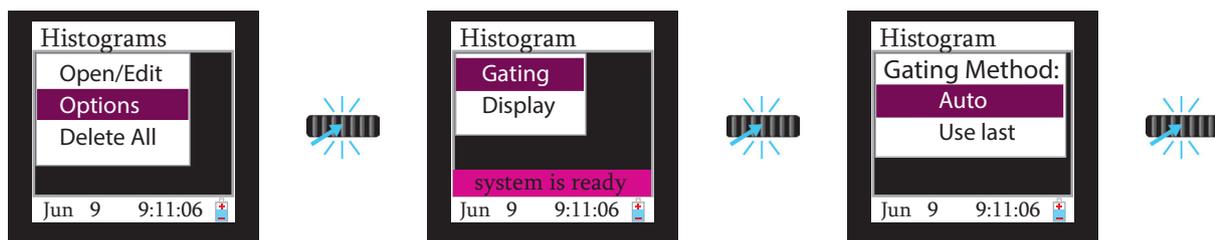


Gating Setup

There are two options for setting gates (upper and lower limits of the histogram) **prior to counting**. One option is to choose the last setting used and the other is to allow the instrument to automatically set the gates based on the profile. The gates can also be changed manually after the count has been performed. Manual gating is recommended when using the 40 μm sensor or when optimizing counting parameters for a new sample.

1. To set the gates before counting, scroll the instrument control button until **Histograms** is displayed. Scroll and click to choose **Options**.
2. Click the control button to choose **Gating**, then scroll and/or click to choose **Use Last** or **Auto**. The **Use Last** option will select whatever gating parameters were last set, either during a count or during post-count data management. The **Auto** option will set the gates automatically based on the histogram profile.

Note: In the **Gating Method** screen, the two options may appear in different order, depending on the last choice (i.e., **Auto** will not always be the first choice).



Testing the Scepter™ Handheld Automated Cell Counter

To ensure proper system operation, the Scepter™ Handheld Automated Cell Counter can be tested periodically with the supplied test beads. The beads can be used to test the system when first received, as well as for practice and troubleshooting. Refer to the Scepter™ Test Bead product insert for expected bead concentration. The procedure for testing the Cell Counter with test beads and counting cells is the same, except that the beads are ready to use and require no dilution. Either 40 or 60 µm sensors can be used for testing.

1. Allow Scepter™ Test beads to come to room temperature before use.
2. Mix beads gently by shaking bead vial for several seconds. If using vortex, mix at low speed. Avoid excessive foaming which can lead to inaccurate counts.
3. When counting test beads, set gating to **Auto** and follow the Cell Counting procedure below, beginning with step 2. Mix beads gently before each sampling.
4. When the bead count is complete, the bead concentration and diameter/volume will be displayed on the screen.

Cell Counting

1. In a 1.5 mL microcentrifuge tube, dilute the single-cell suspension with an appropriate diluent so that the cell concentration is within the operating range of the instrument for the sensor being used:

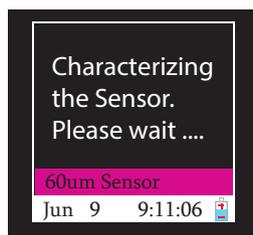
Sensor size	Operating Range
40 µm	50,000–1,500,000 cells/mL
60 µm	10,000–500,000 cells/mL

A dilution of 1:5 to 1:15 is recommended for most mammalian cell lines, but the appropriate dilution will depend on cell type and seeding density. The minimum volume required for an accurate count is 100 µL.

2. Turn the Cell Counter on and the **Attach Sensor to begin** screen will be displayed.
3. Insert the Scepter™ Sensor into the sensor attachment port **with the sensor size number and circuit board facing the front of the instrument (plunger side)**.

IMPORTANT: To avoid severe instrument damage and costly repair, orient the sensor correctly before inserting it into the attachment port. Extreme force **is not** required to insert the sensor.

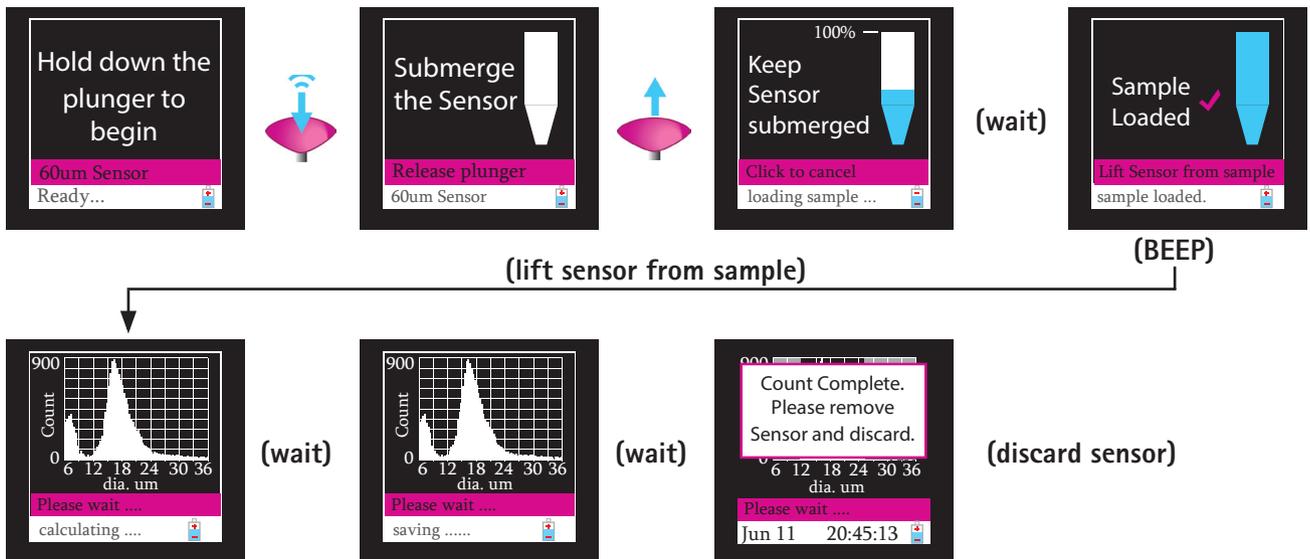
The sensor fully seats with a slight click, and **Characterizing the Sensor** will appear briefly on the screen when it is seated properly.



Cell Counting, continued

- To carry out the counting process, prepare cell sample and follow the steps displayed on the screen.

Note: For an accurate cell count, it is important to release the plunger only when the sensor is submerged and to keep the sensor in the cell suspension as long as the screen displays **Keep Sensor submerged**. The Cell Counter will beep when sample loading is completed.



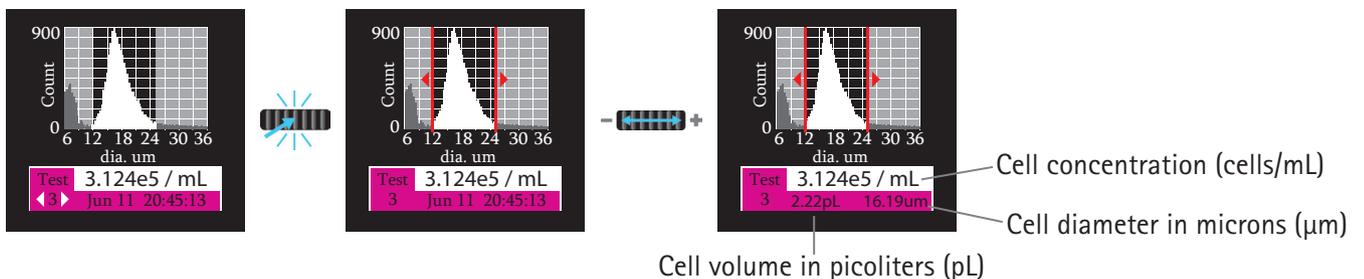
- When the screen displays **Count Complete**, remove the sensor from the Cell Counter and discard as biohazardous waste.

Note: Scepter™ Sensors are not reusable. Reuse of the sensor will result in an error message on the instrument. However, an unused sensor may be removed from the Cell Counter and reinserted.

- The histogram and count will be displayed, along with the test number, date, and time.

Note: The test number, date, and time will become the file name when the histogram is uploaded to a computer. The test number will be reused as files are deleted, so it is important to note the unique "test number - date - time sequence" for data tracking.

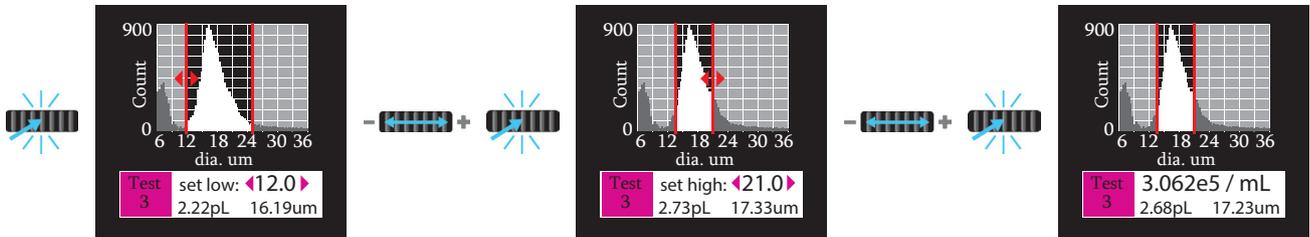
- Click the control button once, then scroll once, and the full count data will be displayed below the histogram. Scroll to move back and forth between date and count data screens.



To adjust the upper and lower gates, proceed to **Managing the Data**. To save the histogram and return to **Menu**, double click, then click again to choose **Save & Exit**.

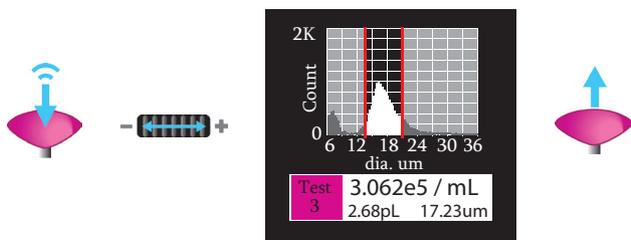
Managing the Data

1. If desired, the upper and lower gates can be adjusted after a count has been performed. From the histogram display screen, click the instrument control button until **set low** is displayed below the histogram. The lower gate will appear as a red line flanked by red arrows. Scroll to move the lower gate to the desired limit. Click the control button again and **set high** will appear in the display. The upper gate will be flanked by red arrows. Scroll to move the upper gate to the desired limit. Click the control button, and the cell concentration, volume, and diameter for the selected area will be displayed below the histogram.

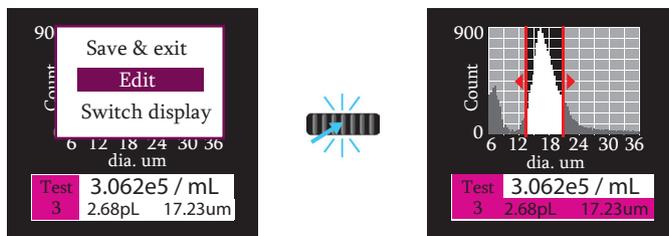


2. The count scale (y-axis) can also be adjusted from any of the screens that display the red gate lines. Simply hold down the plunger and scroll to the desired scale. Release the plunger to save the chosen scale.

Note: When using the 40 μm sensor, the y-axis may need to be scaled and the gates may need to be adjusted manually to see the desired peak.

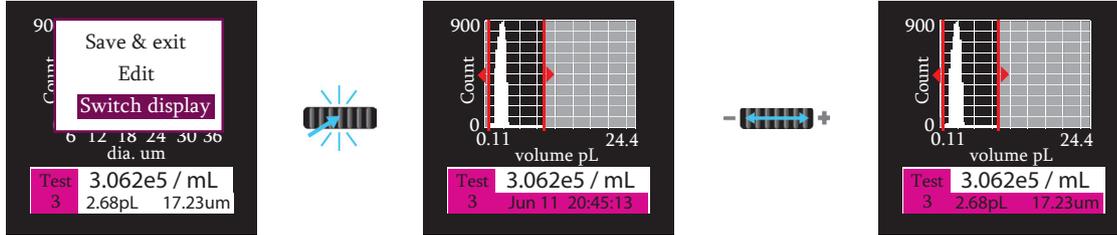


3. To continue adjusting the gates, click the control button, then click and scroll to choose **Edit**, and you will return to the first gate setting screen.

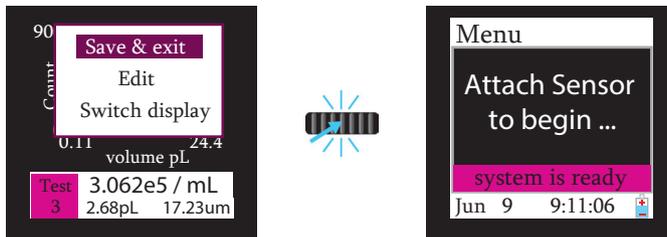


Managing the Data, continued

- To change the display between **diameter μm** and **volume pL**, scroll to **Switch display** and click. You will return to the first gate editing screen, but the display units will be now be different. Scroll to move back and forth between date and count data screens.



- To save the edited histogram, double click the control button, then click again to choose **Save & exit**. This will return you to the **Menu** screen.



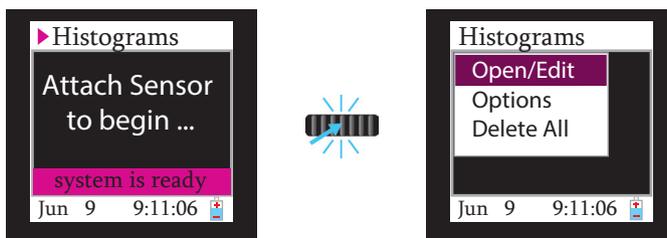
- Up to 72 histograms can be saved for future review. When the display screen shows **Disk Full**, the acquired data can no longer be saved. To continue, histograms must either be deleted or uploaded to a computer.

Note: The counting procedure can still be performed when the disc is full, but histograms and data will not be saved.

To delete histograms, refer to Retrieving and Deleting Data. To upload to a computer, refer to the Scepter™ Application User Documentation.

Retrieving and Deleting Data

- Turn the Cell Counter on and the **Attach Sensor to begin** screen will be displayed. Scroll the instrument control button until **Histograms** is displayed. Click the control button again to display different options (**Open/Edit**, **Options**, **Delete All**).

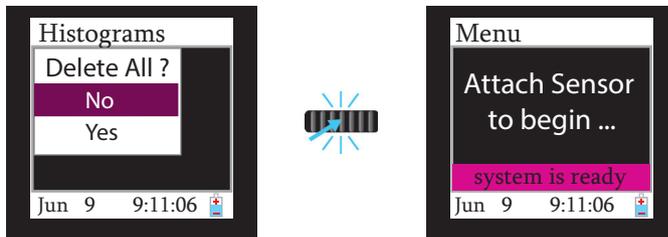


Retrieving and Deleting Data, continued

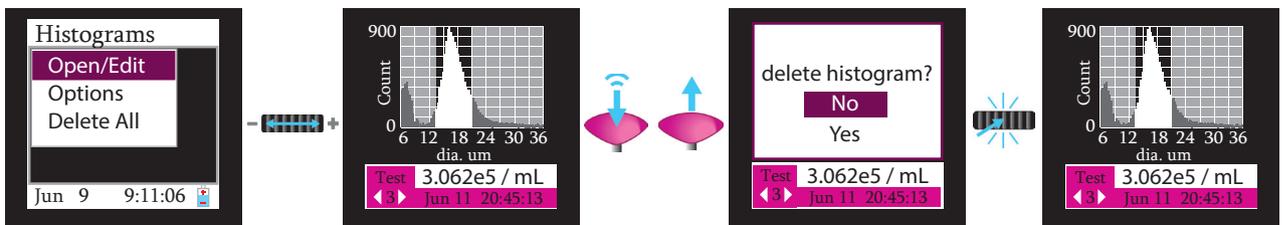
- To retrieve data, click on **Open/Edit**. Browse through the acquired histograms by scrolling the control button. To view the full count display for a histogram, click the control button once, then scroll once, and the full count data will be displayed below the histogram. To return to **Menu**, double click, then click again to choose **Save & Exit**.
- To delete all data, scroll to **Histograms**, click the control button, then scroll to **Delete All** and click the control button. **Delete All? (No, Yes)** will be displayed. Scroll to choose **Yes**, and click the control button to proceed with this action.



If you do not wish to delete **all** histograms, scroll and/or click to choose **No**. The system will return to **Menu**.

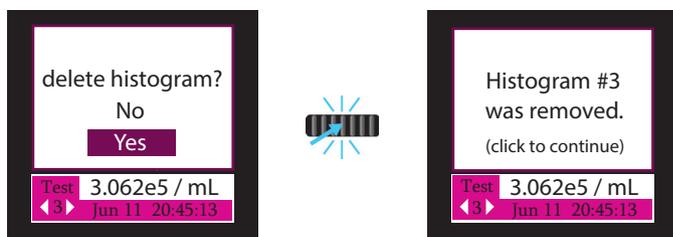


- To delete a specific histogram, scroll to **Histograms**, click the control button, then click on **Open/Edit**. Scroll to the desired histogram. Press the plunger down and release it. **Delete histogram? (No, Yes)** will appear on the display screen. If this is not the histogram you wish to delete, click to choose **No**. The system will return to the histogram you were reviewing.



Retrieving and Deleting Data, continued

If this is the histogram you wish to delete, scroll and click to choose **Yes**. Click again to delete the histogram.



Data Acquisition

Scepter™ Software Pro data acquisition software is available for download at www.millipore.com/sceptersoftwarepro. The associated Scepter™ Software Pro User Guide can be downloaded at www.millipore.com/techlibrary; search on key word "scepter".

Instrument Firmware and Software Upgrades

Scepter™ firmware and software may be updated periodically. For information on the most up-to-date firmware and software, go to www.millipore.com/scepterupgrade. Register your instrument in order to receive notification about relevant firmware/software upgrades.

Troubleshooting

Symptom	Cause	Corrective Action
Questionable concentration	Sensor not fully immersed in solution while sample is loading	Keep sensor fully immersed while screen displays Keep Sensor submerged .
	Concentration of cell sample is too high or too low	Make sure concentration of cell sample is within recommended guidelines. Refer to General Guidelines section.
	Wrong diluent	Use a diluent that is compatible with cells being counted. Refer to General Guidelines section.
	Cell clumping	Ensure that cells are in a single-cell suspension. Break clumps by pipetting up and down with a standard pipettor.
	Firmware has not been upgraded for use with 40 µm sensor	Visit www.millipore.com/scepterupgrade for information on upgrading the firmware.
Questionable cell diameter	Wrong diluent	Use a diluent that is compatible with cells being counted. Refer to General Guidelines section.
	Cell clumping	Ensure that cells are in a single-cell suspension. Break clumps by pipetting up and down with a standard pipettor.
	Firmware has not been upgraded for use with 40 µm sensor	Visit www.millipore.com/scepterupgrade for information on upgrading the firmware.
Failure to advance to next display screen	Sensor is not inserted correctly	Make sure sensor size number and circuit board are facing the front of the instrument. Make sure sensor is fully inserted in sensor attachment port.
Peak of interest indistinct	Y-axis not optimized for peak of interest	Refer to Managing the Data section for instructions on adjusting the y-axis.
Peak of interest not selected by gates	Use of autogating feature	After counting, reset gates manually. Refer to Managing the Data section for instructions on adjusting the gates manually.

Error/Warning Messages

Message	Cause	Corrective Action
Aperture block	Viscous sample (e.g. serum-enriched media)	Keep sensor submerged in sample until Count Complete appears on the screen. Use PBS for diluting sample.
	Cell Counter sensor is blocked	Sample concentration is too high; dilute cell sample more. Ensure that cells are in a single-cell suspension. Break clumps by pipetting up and down with a standard pipettor.

Troubleshooting, continued

Error/Warning Messages

	Cause	Corrective Action
Aperture block, continued	Air bubble in sensor due to: Premature release of Scepter™ plunger Air bubble in sample Sensor lifted from sample before screen displays Sample Loaded	Fully submerge sensor in sample before releasing plunger. Mix sample gently to avoid bubbles. Keep sensor fully submerged in sample while screen displays Keep Sensor submerged .
	Filter is wet	If Aperture block error appears repeatedly, remove filter cover and dry filter. Refer to Maintenance section.
	Wrong diluent	Refer to list of acceptable diluents in General Guidelines section.
	O-ring damaged or misaligned	Change or reposition O-ring. Refer to Maintenance section.
Lost start	Sample volume too small, sensor not fully immersed in solution while sample is loading, or air bubble in sensor	Make sure sample volume is $\geq 100 \mu\text{L}$. Keep sensor fully immersed while screen displays Keep Sensor submerged .
Lost sensor - detect	Sensor removed before counting cycle completed, or not properly inserted into Cell Counter	Do not remove sensor from Cell Counter before completion of counting cycle. Ensure sensor is properly inserted.
Warning High Concentration	Concentration of cell sample is too high	Make sure concentration of cell sample is within recommended guidelines. Refer to General Guidelines section.
Start open Stop open	Issues detected upon sensor insertion	Reinsert sensor. If problem persists, return instrument for service.
Start/stop short Electrode short	Previously used sensor detected	Do not reuse sensors.
Low battery	Battery needs to be recharged	Recharge instrument for a minimum of 3 hours using computer or power adapter.
Disk full	Instrument has exceeded maximum storage capacity of 72 histograms	Delete histograms or upload to computer.
Disk now full	After histogram is recorded and saved, there is no more space on the disk drive	Delete files.
Unhandled exception	Internal software issue due to instrument malfunction or high level of external interference	Clear error by turning instrument off and then on again. Remove Cell Counter from sources of external interference. If problem persists, return instrument for service.
SPI timeout	Instrument malfunction	If problem persists, return instrument for service.

Troubleshooting, continued

Error/Warning

Error/Warning Messages	Cause	Corrective Action
Corrupt filesys	Instrument malfunction	If problem persists, return instrument for service.
Defaults loaded	Instrument has detected corruption or new version of firmware and reset all settings to factory defaults	If problem persists, return instrument for service.
False start False stop	Sensor malfunction	Replace sensor.

Maintenance and Storage

Storage

Store the Scepter™ Cell Counter and Scepter™ Sensors at room temperature in a dry environment.

Avoid exposure to ultraviolet light as it will discolor and/or damage the instrument.

Store test beads in refrigerator after opening. Do not freeze.

Charging the Battery

The Scepter™ Handheld Automated Cell Counter is equipped with a 3.7 V lithium ion battery which can be charged for approximately 400 cycles. The battery may be charged at any time in the discharge cycle and can be charged continuously without damage, using a computer or the universal power adapter (sold separately). Refer to the Installation section for information on how to charge the battery.

CAUTION: To prevent battery damage, use ONLY the specified power adapter (Cat. No. PHCCPOWER).

The battery life is about 2 to 5 years, depending on use. Lithium ion batteries discharge even if they are not in use. To prevent battery damage from self-discharge, charge the battery at least once every two months.

Cleaning/Sanitizing

The Cell Counter is **NOT** autoclavable. Extreme heat will damage the display screen and other electronic components.

The Cell Counter body and instrument control button can be sanitized by wiping with a soft cloth moistened with 70% ethanol. Do not clean the display screen with sanitizing agents or other aggressive solutions. Wipe the screen with a soft, dry, nonabrasive cloth.

CAUTION: When sanitizing, make sure that no liquid enters any part of the instrument.

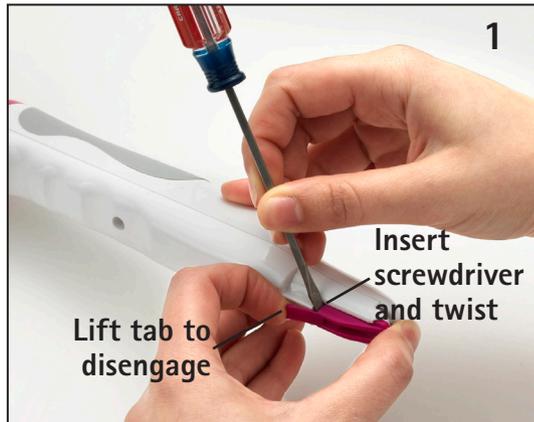
Maintenance

With the exception of the two procedures that follow, instrument repairs must be carried out by authorized personnel only.

Use only original spare parts and accessories (universal power adapter, USB cable, Scepter™ Sensors, O-ring kit, test beads).

Replacing the O-ring:

The Cell Counter has two O-rings, but the one most likely to require replacing is located on the back side of the instrument under the filter cover. To access this O-ring, lift the locking tab slightly to disengage it, and at the same time, insert a small screwdriver or laboratory spatula blade in the space shown (step 1). Twist the blade to slide the cover down, then continue to slide it off (step 2).



Insert a Scepter™ Sensor into the sensor attachment port to keep the O-ring from falling into the instrument (step 3). Remove the O-ring with a spatula or screwdriver tip (step 4).



Place a new O-ring in the circular slot (step 5) and make sure it is fully seated (step 6).



Replacing the O-ring, continued

Remove the Scepter™ Sensor and slide the filter cover back into place (step 7). Push the end of the filter cover gently against a hard surface until it is flush with the end of the Cell Counter (step 8). Be careful to push only the purple filter cover, and not the tip of the instrument.



Drying the Filter:

The filter is located on the inside of the filter cover. To access it, remove the filter cover as described in **Changing the O-ring**. Allow to air dry at room temperature for 1–2 hours or blow very gently with clean, dry, room temperature compressed air. After drying, make sure the O-ring is properly seated and slide the filter cover back on as shown above.

Specifications for Scepter™ Handheld Automated Cell Counter

Performance	40 µm sensor	60 µm sensor
Sample Volume Required	≥ 100 µL	≥ 100 µL
Operating Range		
Cell Size	3–18 µm	6–36 µm
Cell Concentration	50,000–1,500,000 cells/mL	10,000–500,000 cells/mL
Processing Time	< 40 seconds	< 30 seconds
Software	Requires Windows XP®/Windows Vista®/Windows® 7 or Mac OS® X supported operating system	
Dimensions		
Length	29 cm (11.4 in.)	
Width	5.5 cm (2.2 in.)	
Weight (approximate)	229.5 g (0.5 lb)	
Material	Polycarbonate, Acrylonitrile butadiene styrene (ABS)	
Electrical Specifications		
Power	Internal rechargeable 3.7 V lithium ion battery. Battery is rechargeable via USB cable.	
Universal Power Adapter for Recharging Battery (sold separately)	Input 100–240 VAC (50/60 Hz), 0.2 A Output 5 V, 1 A CE certified	
Operating Environmental Conditions		
Temperature	15–30 °C	
Maximum Relative Humidity	20–80% (non-condensing)	
Scepter™ Sensor Specifications		
Material	Polycarbonate	
Aspiration Volume	50 µL	
Dimensions	Length: 8.6 cm (3.4 in.) Width: 1.6 cm (0.6 in.)	
Weight	2.3 g (0.1 oz)	
Sensor Orifice/Aperture	40 µm or 60 µm	

Ordering Information

This section lists catalogue numbers for the Scepter™ Cell Counter and related products. See Technical Assistance section for contact information. You can also purchase these products on-line at www.millipore.com/products.

Product Description	Cat. No.	Qty/Pk
Scepter™ Handheld Automated Cell Counter		
Scepter™ Handheld Automated Cell Counter (includes Cell Counter, 40 or 60 µm Scepter™ Sensors (50/pk), USB cable, test beads, O-rings, downloadable soft- ware and user guides)		
with 40 µm sensors	PHCC20040	1
with 60 µm sensors	PHCC20060	1
Scepter™ Replacement Parts/Accessories		
Scepter™ Sensors, 40 µm	PHCC40050	50
	PHCC40500	10 × 50/pk
Scepter™ Sensors, 60 µm	PHCC60050	50
	PHCC60500	10 × 50/pk
Scepter™ USB Cable	PHCCCABLE	1
Scepter™ O-ring Kit (contains 2 O-rings and 1 filter cover)	PHCCOCLIP	1 kit
Scepter™ Test Beads, 5 mL	PHCCBEADS	1
Universal Power Adapter	PHCCPOWER	1
Related Products		
EmbryoMax® 1x Dulbecco's Phosphate Buffered Saline w/o Ca ⁺⁺ & Mg ⁺⁺	BSS-1006-A	1 L
Millicell® HY Flask		
T-600, 600 cm ² surface area, 3-layer, sterile	PFHYS0616	16
T-1000, 1000 cm ² surface area, 5-layer, sterile	PFHYS1008	8
Stericup® Sterile Filter Systems		
150 mL, 0.22 µm PES membrane	SCGPU01RE	12
250 mL, 0.22 µm PES membrane	SCGPU02RE	12
500 mL, 0.22 µm PES membrane	SCGPU05RE	12
500/1000 mL, 0.22 µm PES membrane	SCGPU10RE	12
1000 mL, 0.22 µm PES membrane	SCGPU11RE	12
250 mL, 0.10 µm PES membrane	SCVPU02RE	12
1000 mL, 0.10 µm PES membrane	SCVPU11RE	12
Steritop® Sterile Filter Units		
33 mm thread, 150 mL, 0.22 µm PES membrane	SCGPS01RE	12
33 mm thread, 250 mL, 0.22 µm PES membrane	SCGPS02RE	12
33 mm thread, 500 mL, 0.22 µm PES membrane	SCGPS05RE	12

Ordering Information, continued

Related Products

Steritop® Sterile Filter Units			
45 mm thread, 150 mL, 0.22 µm PES membrane	SCGPT01RE		12
45 mm thread, 250 mL, 0.22 µm PES membrane	SCGPT02RE		12
45 mm thread, 500 mL, 0.22 µm PES membrane	SCGPT05RE		12
45 mm thread, 1000 mL, 0.22 µm PES membrane	SCGPT10RE		12
Steriflip® Sterile Filter Units, 50 mL, 0.22 µm PES membrane		SCGP00525	50

Technical Service

For more information, contact the office nearest you. In the U.S., call 1-800-MILLIPORE (1-800-645-5476). Outside the U.S., go to our web site at www.millipore.com/offices for up-to-date worldwide contact information. You can also visit the tech service page on our web site at www.millipore.com/techservice.

Warranty

The applicable warranty for the products listed in this publication may be found at www.millipore.com/terms (within the "Terms and Conditions of Sale" applicable to your purchase transaction).