



ENGLISH

**SEM SCANNER**  
**POINT OF CARE 200 SERIES**  
(SW V3.60)

**INSTRUCTIONS FOR USE**



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## I. Warnings and Safety Precautions

The SEM Scanner Point of Care 200 Series (SEM Scanner) has been constructed in accordance with the European Medical Device Directives as well as international regulations and standards for operation of electrical equipment, electromagnetic compatibility, and stipulated safety requirements.

Improper use or handling, however, can result in damage and/or injury. To prevent damage to the equipment, please read these operating instructions carefully before using your SEM Scanner system. Keep these instructions in a safe place. Follow the instructions below to ensure safe and trouble-free operation of your system.



- **WARNING:** To prevent the spread of infection, the SEM Scanner should be properly cleaned and disinfected according to the instructions provided in this Instructions for Use after it is used on a patient.
- **WARNING:** Should the device come in contact with non-sterile surfaces (for example, if it falls on the floor) it should be cleaned and disinfected before obtaining another patient reading.
- **WARNING:** Do not attempt to disassemble or otherwise modify the SEM Scanner as this can result in unintended hazards. The SEM Scanner can only be serviced by the manufacturer (Bruin Biometrics, BBI) or a BBI Authorized Service Center. Please contact your Product Specialist or Customer Service regarding any device that is not functioning correctly.
- **WARNING:** To avoid the risk of electric shock, this equipment must only be connected to a supply main with protective earth.
- **WARNING:** To avoid the risk of explosion, the SEM Scanner should not be used in the presence of flammable anesthetic agents.
- **CAUTION:** Examine the SEM Scanner for damage or sharp edges prior to each use. If any damage or sharp edges are found, please contact customer service or your Product Specialist. Do not attempt to use the device.

## 2. General

### 2.1 Device Description

The SEM Scanner is a cordless, hand-held, portable device that consists of a single circular electrode, an integrated pressure sensor and hardware and software to run a user interface device screen that displays the device status, battery status, and SEM Value. The SEM Scanner is pre-calibrated. The SEM Scanner system includes the Scanner unit and a charging mat with a wall mount power supply for recharging the device unit.

The SEM Scanner is intended to provide information that a physician or health care professional can utilize as an adjunct to the current standard of care including visual assessment for the detection of pressure induced tissue damage (e.g., pressure ulcers).

The SEM Scanner measures tissue surface electrical capacitance through application of low amplitude signals from the electrode when placed on the patient’s skin. The SEM Scanner is designed to measure sub-epidermal moisture (“SEM”), which has been studied as an indicator of localized edema characteristic of pressure-induced tissue damage.

The SEM Scanner assesses changes in surface electrical capacitance and expresses the result in a SEM Value up to 7.0. The SEM Scanner enables trained medical personnel to distinguish healthy tissue from damaged tissue.

#### 2.1.1 SEM Scanner Device



**Figure 1. SEM Scanner Top View Showing Display and Action Button**



**Figure 2. The electrode on the bottom of the SEM Scanner**



**Figure 3. SEM Scanner Side View**

**2.1.2 SEM Scanner Display**



**Figure 4. SEM Scanner Display (V3.60)**

Item	Function
Action Button	Clears SEM readings and turns the Scanner unit ON/OFF.
Battery Gauge	Battery icon indicating current battery state of charge
$\Delta$ (Delta)	Calculated difference between the minimum and maximum SEM Values in the set of readings taken
SEM	Display of SEM Value from the current reading taken
Status Indicator	Number of acquired readings, status indicator, or error messages
Pressure Indicator	Bars indicating increased applied pressure change color from yellow to green to yellow as applied pressure increases.

**Table I. Legend for Figure 4**

## 2.2 SEM Scanner Accessories

The SEM Scanner ships with an Inductive Charging Mat and medical device approved wall-mount power supply that is used when charging the device.



Figure 5. Inductive Charging Mat

## 2.3 Indications for Use

The SEM Scanner is a device intended to provide information that a physician or health care professional can utilize as an adjunct to the current standard of care for the detection of pressure induced tissue damage.

## 2.4 Contraindications

Do not use on broken skin.

## 2.5 Intended User Profile

The system is intended for use by trained physicians, nurses or technicians.

## 2.6 Adverse Events

No known adverse events.

## 2.7 Warranty and Disclaimer

Bruin Biometrics warrants the SEM Scanner against defects in materials and workmanship for three (3) years from the date of purchase from Bruin Biometrics LLC (BBI) or its subsidiaries. This warranty is given only to the original purchaser of the SEM Scanner. BBI's obligation under the warranty is to provide for repair, or at its option, to provide a replacement product. No other remedy is obligated by this warranty. All special, incidental and coincidental damages are excluded.

To request repair or replacement under this warranty, Purchasers should contact their local Customer Service.

Warranty conditions may differ in some countries. Contact your local Customer Service for warranty terms.



Risk of loss or damage during shipments under this warranty shall be borne by the party shipping the Product. Products shipped by the Purchaser under this warranty shall be suitably packaged to protect the Product. If Purchaser ships a product to BBI in unsuitable packaging, any physical damage present in the Product on receipt and inspection by BBI, and not previously reported, will be presumed to have occurred in transit and will be the responsibility of the Purchaser.

**Exclusions**

This warranty is limited to defects and materials that can be attributed to a fault or defect within the SEM Scanner.

This warranty does not extend to any Warranted Products or parts thereof: (a) that have been subject to misuse, neglect or accident, (b) that have been damaged by causes external to the Warranted Product, (c) that have been used in violation of BBI' Instructions for Use, (d) on which the serial number has been removed or made illegible, (e) that have been modified by anyone other than BBI or its authorized service center, unless authorized prior to such service by BBI, (f) that are equipment sold as used, or (g) that are exposed to agents listed in Table 2, below. Table 2 is not an exhaustive list of agents which may compromise the integrity of the SEM Scanner.

<b>Severe Effect-NOT Recommended</b>			
Benzene	Cyclohexane	Kerosene	Nitric acid- 70%
Carbon tetrachloride	Ethyl chloride	Trichloroethylene	Perchloroethylene
Chlorobenzene	Freon	Lacquer	Toluene
Chloroform	Gasoline, unleaded	Naphtha	Xylene

**Table 2: Agents That Should Never Be Used On The SEM Scanner**

**Disclaimer of Additional Warranties**

No distributor, dealer or other party is authorized to make any warranty on behalf of BBI, or to assume for BBI any other liability with respect to the SEM Scanner.

The contents of these Instructions for Use do not constitute a warranty.

## 2.8 Table of Symbols

Symbol	Meaning
	Manufacturer's Catalog designation or number
	Contact/European Representative of manufacturer
	Dispose of this equipment according to local regulations for electrical and electronic waste disposal
	Instruction are included and must be followed
	Serial number
<b>IPX1</b>	Drip Proof Equipment-IPX1: The SEM Scanner enclosure provides protection against the harmful effects of the ingress of liquids. (IPX1, per IEC 60529)
	Caution or warning
	CE mark in accordance to the European Medical Device Directive
	Manufactured By
	Type BF Applied Part with IEC-60601-I
<b>Rx ONLY</b>	CAUTION: Federal (USA) law restricts this device to sale by or on the order of a physician
	Keep away from sunlight
	Keep dry
	Do not use if package is damaged and the device inside appears physically broken, cracked, or does not charge and initialize following the Instructions for Use
	Temperature limit
	Humidity limit

**Table 3. Table of Symbols**

### 3. Operating Instructions

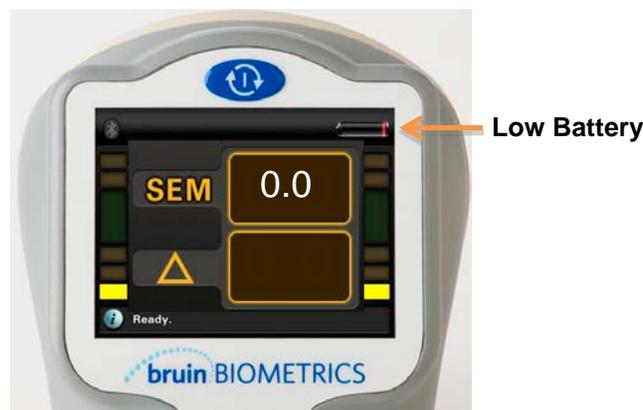
#### 3.1. Unpacking and Inspection

After the SEM Scanner is unpacked verify that the scanner has no signs of damage. If there are signs of damage, contact your Product Specialist or Customer Service.

#### 3.2. Charging the Device

The device must be charged before using it for the first time.

The device also needs to be charged if the SEM Scanner screen displays a red, low battery icon (Figure 6).

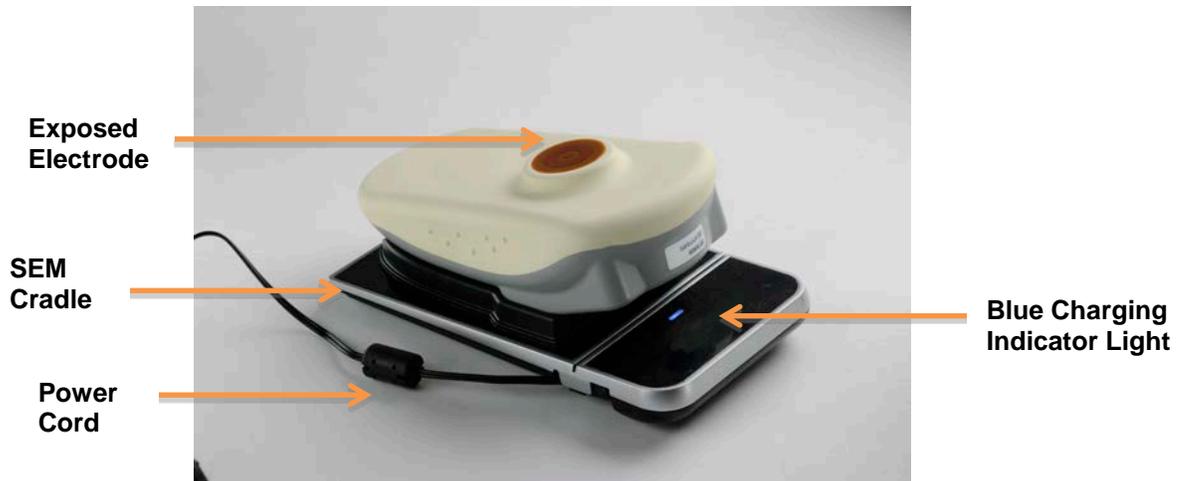


**Figure 6. The battery gauge is in the upper right corner of the SEM Scanner Display**

Follow the steps below to charge the device:

1. Connect the charging mat power adaptor to the power outlet.
2. Ensure that the SEM Scanner is OFF by pressing and holding the Action Button  for 6 seconds until the display screen is blank.
3. Turn the SEM Scanner upside down (so the electrode is on top) and press it firmly into the cradle on the charging mat (Figure 7).
4. A blue charging mat indicator light indicates that it is charging the SEM Scanner. If the blue light is not illuminated then the SEM Scanner may not be positioned securely in the cradle. Do not press the Action Button to turn the SEM Scanner on while it is on the charging mat.
5. Leave the device on the charging mat for at least 6 hours to completely charge the battery.

When fully charged, the battery provides for approximately three hours of SEM Scanner accumulated operation.



**Figure 7. Correct positioning of the SEM Scanner on the charging mat**

### **3.3. Use of Device**

The SEM Scanner should be properly cleaned and disinfected after it is used on a patient. See Section 4 for detailed cleaning instructions.

Follow the steps below to start a session:

1. Remove the SEM Scanner from the charging mat.
2. Verify the scanner has no visible damages or sharp edges and that the electrode is sealed against the base. Do not use the device if the electrode seal is broken or any damage or sharp edges are found.
3. Turn the SEM Scanner on by pressing the Action Button  for approximately one second (Figure 8).



**Figure 8. Starting a Session**

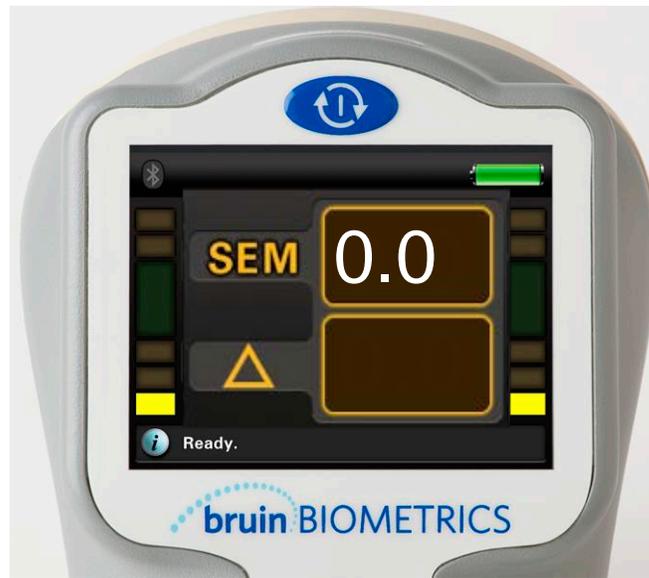
After turning on the SEM Scanner, an audio tone will sound and the initialization screen will be displayed (Figure 9). It will take approximately 45 seconds for the device to initialize and be ready for use.



**Figure 9. SEM Scanner Initialization Screen**

It is important that the SEM Scanner's electrode remains untouched during initialization. If the electrode is touched during initialization, turn off the device and re-initialize.

Once initialization is complete, the Status Indicator will display "Ready" (Figure 10).



**Figure 10. SEM Scanner is fully charged, initialized and ready for use**

### **3.4. Acquiring SEM Scanner Readings**

The SEM Scanner automatically obtains readings when the electrode is applied with appropriate pressure to an anatomical location (Figure 11).

Follow the steps below to acquire SEM Scanner readings:

1. Ensure that any surface moisture or matter is removed from the area on the skin being assessed.
2. Apply the electrode to the desired anatomical site with sufficient pressure for approximately one second as indicated with the green bars on the Pressure Indicator. The electrode must be in complete contact with the skin to acquire a proper reading.
3. Confirm a reading has been taken by listening for the SEM Scanner to emit a short audio tone.
4. Upon acquiring a reading, the Status Indicator on the SEM Scanner Display will read, "1 Reading Taken."
5. Repeat steps two and three to obtain additional SEM Scanner readings to complete a set of readings for assessment. With additional readings obtained, the Status Indicator on the SEM Scanner Display will update to show the total number of readings completed.
6. See Section 3.5 for details on display when completing an assessment set of readings.

7. See Section 3.6 for recommendations of number of SEM readings to complete for an assessment.
8. Perform cleaning and disinfection procedure between each anatomical location on a patient. See Section 4 for Cleaning and Disinfection Instructions.



**Figure 11. SEM Scanner Acquiring Heel Reading**

### **3.5. *Displaying an Assessment from a Set of Readings***

The SEM Scanner records values in sample sets according to the number of readings taken during an assessment. In an assessment set of readings, the difference between the largest (high) reading and smallest (low) reading is displayed on the SEM Scanner display as a symbol “ $\Delta$ ” (delta). Each time a new reading is taken the  $\Delta$  value and the number of readings will be updated and displayed by the SEM Scanner.

The  $\Delta$  symbol will display a value when a minimum of three (3) SEM Scanner patient readings are performed. See Section 3.6 for clinical interpretation recommendations.

### **3.6. *Clinical Interpretation***

Clinical interpretation of SEM Scanner readings begins by collecting a set of readings described in Section 3.4 performed on each anatomical site under assessment. After the set of readings have been collected for the assessment, the  $\Delta$  symbol will display a value as described in Section 3.5.

### Interpretation of the $\Delta$ Symbol:

- A  $\Delta \leq 0.5$  at an anatomical site may suggest the tissue is healthy.
- A  $\Delta > 0.5$  at an anatomical site may suggest the presence of pressure induced tissue damage.

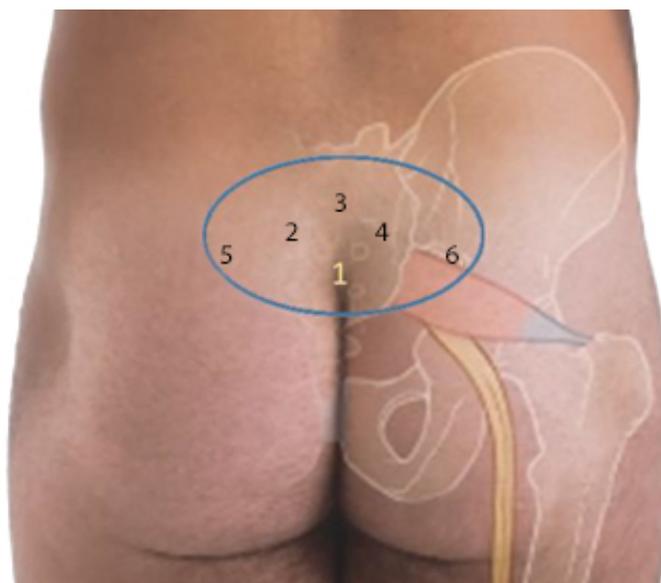
The  $\Delta$  value should be considered in conjunction with other measures of standard of care and clinical judgment.

#### 3.6.1. Recommended Sequence of SEM Scanner Readings at the Sacrum

The recommended sequence of SEM Scanner readings to complete for an assessment of the sacrum is shown in Figure 12. Readings are taken by moving directionally around the bony prominence to identify healthier tissue and other damaged areas around the bony prominence.

For the sacrum, SEM Scanner readings needed for clinical interpretation are taken at six (6) points within the oval shown in Figure 12 and as described below. .

- The first reading begins just above the gluteal cleft of the sacrum (marked with the number 1 in Figure 12).
- The second, third, and fourth readings are taken equally spaced over the bony prominence of the sacrum (marked with the numbers 2, 3, 4 in Figure 12) at distances of 2 centimeters from the first reading. These readings should not be taken higher than S5 of the sacral bone.
- The fifth and sixth readings are taken outside the sacral bone region at distances of 5 centimeters to the left and right of the first reading (marked with the numbers 5 and 6 in Figure 12). These readings provide comparison between tissues over the sacral bones, where pressure damage generally starts to those away from the sacral bones where tissue damage progresses.



**Figure 12. SEM Scanner readings over and around sacrum**

Figure 13 presents an example of SEM Scanner readings collected.

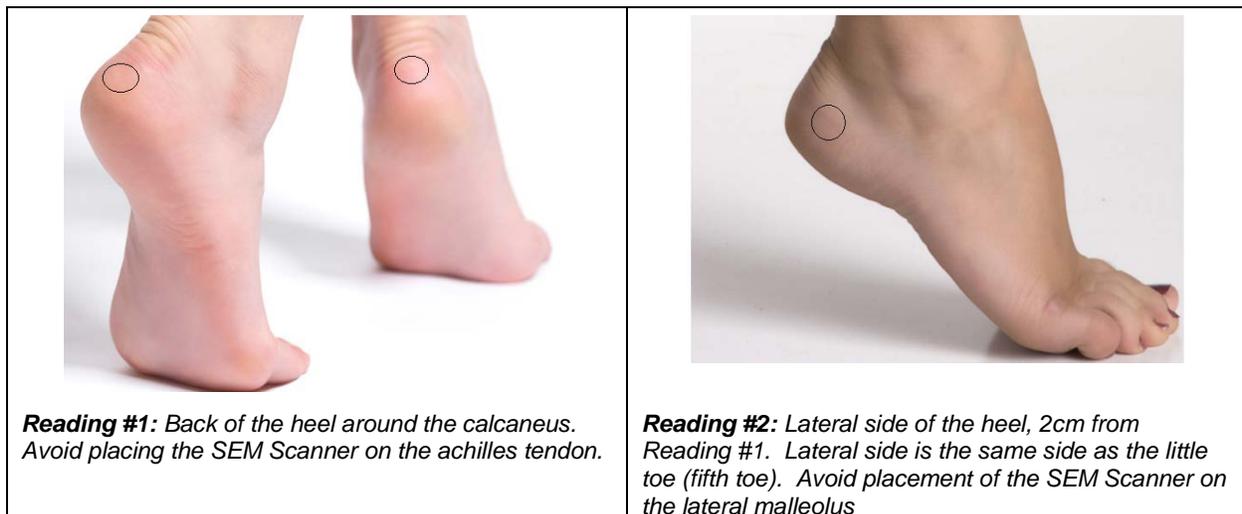
SEM Scanner Readings - Sacrum			Δ Calculations	
	3 2.0		High	2.7
2 2.7	1 1.8	4 2.6	Low	1.8
5 2.4		6 2.0	Δ	0.9

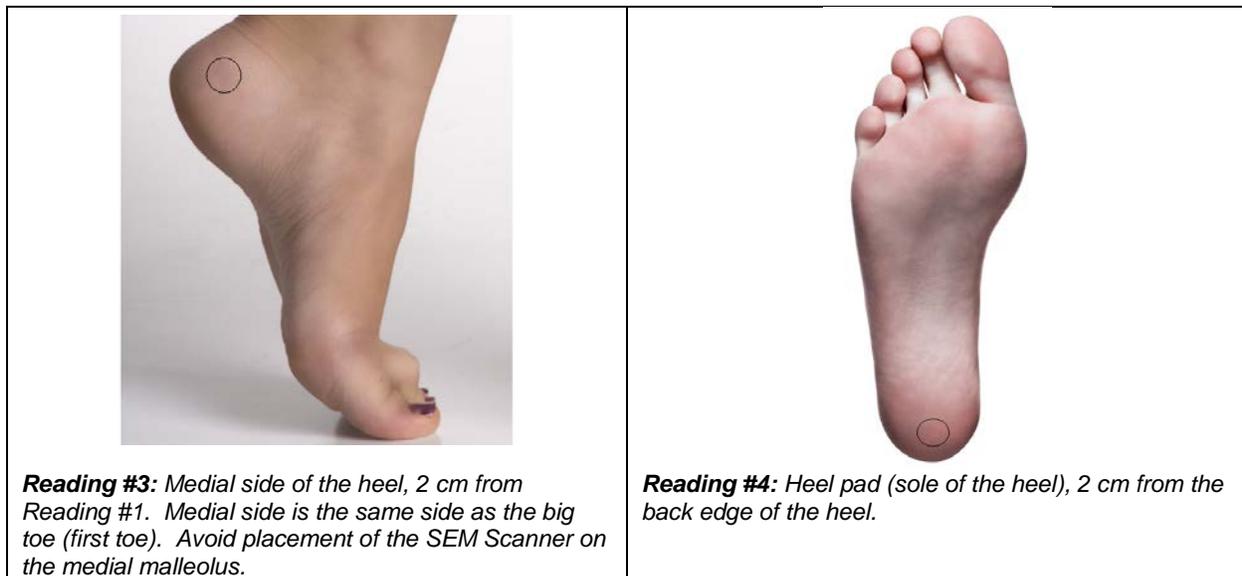
**Figure 13. Example of SEM Scanner Readings for Sacrum**

### 3.6.2. Recommended Sequence of SEM Scanner Readings at the Heels

The recommended sequence of SEM Scanner readings to complete for an assessment of the heel is shown in Figure 14. Readings are taken by moving directionally around the bony prominence to identify healthier tissue and other damaged areas around the bony prominence.

For the heel(s), SEM Scanner readings needed for clinical interpretation are taken at four (4) points as shown in Figure 14 and described below.





**Figure 14. SEM Scanner readings over and around the heel**

Figure 15 presents an example of SEM Scanner readings collected.

SEM Scanner Readings – Heel									
$\begin{array}{ccc} & \underline{4} & \\ & 2.4 & \\ \underline{2} & & \underline{3} \\ 2.2 & \boxed{1} & 2.4 \\ & 2.1 & \end{array}$	<table border="1"> <thead> <tr> <th colspan="2">Δ Calculations</th> </tr> </thead> <tbody> <tr> <td>High</td> <td>2.4</td> </tr> <tr> <td>Low</td> <td>2.1</td> </tr> <tr> <td>Δ</td> <td>0.3</td> </tr> </tbody> </table>	Δ Calculations		High	2.4	Low	2.1	Δ	0.3
Δ Calculations									
High	2.4								
Low	2.1								
Δ	0.3								

**Figure 15. Example of SEM Scanner Readings for the Heel**

### 3.7. Resetting the SEM Scanner

To clear the sample set and start recording readings for a new sample set, select and hold the Action Button  for one second (Figure 16).



**Figure 16. Resetting the SEM Scanner**

### 3.8. Ending SEM Scanner Operation

To end SEM Scanner operation, press and hold the Action Button  for approximately 6 seconds until the SEM Scanner screen becomes blank. The SEM Scanner operation is now ended and power is off.

### 3.9. Summary of Action Button Functions

Desired SEM Scanner Action	Approximate Time to Hold Action Button	Result
Start Operation	1 second	Turns the power on. SEM Scanner will begin initialization when the button is released.
Clear Results	1 second	Resets the SEM and $\Delta$ values displayed on the screen.
Stop Operation	6 seconds	Turns the power off. SEM Scanner screen will be blank.

**Table 4. Summary of Action Button Functions**

## 4. Cleaning and Disinfection

### 4.1. Cleaning and Disinfection Overview

BBI has conducted testing using Metrex CaviWipes™ (<20% alcohol), and determined that the low-alcohol-based wipes are capable of cleaning and disinfecting the SEM Scanner against the following 5 micro-organisms with kill times of less than 3 minutes:

- Mycobacterium terrae
- Staphylococcus aureus
- Pseudomonas aeruginosa
- Escherichia coli
- Klebsiella pneumoniae

The SEM Scanner should never be exposed to the agents listed in the Warranty and Disclaimer section. Use of these agents will void the product warranty.

#### **4.2. Scanner Cleaning and Disinfection Instructions**

To properly clean and disinfect the SEM Scanner, wipe it for at least 1 minute and 45 seconds and allow it to dry for at least 2 minutes.

Follow the steps below to clean and disinfect the SEM Scanner:

- I. Obtain 3 cleaning/disinfectant wipes. Use the first wipe for 45 seconds to clean the scanner. Wipe all surfaces of the SEM Scanner, making sure to clean the crevices on the sides of the device as well (Figure 17-19).



**Figure 17. Cleaning the Bottom of the SEM Scanner**



**Figure 18. Cleaning the top of the SEM Scanner**



**Figure 19. Cleaning the sides of the SEM Scanner**

2. Use the second wipe to completely clean the scanner again for 30 seconds.
3. Use the third wipe to perform another 30 second overall final wiping of the device. The device surface should be fully coated with the wipe solution after the cleaning
4. Allow the device to sit for at least 2 minutes to properly disinfect the device before returning it to storage or using on another patient.
5. The charging mat is typically used in a clean office environment with clean and disinfected scanners. The charging mat should be cleaned only as needed to maintain a good appearance and proper functionality. More extensive cleaning may be required if the system is accidentally soiled or contaminated. Follow the cleaning and disinfection recommendations above.

## 5. Troubleshooting

<b>Problem</b>	<b>Resolution</b>
The device does not turn on.	Charge the SEM Scanner per Section 3.2.
The device shuts off prior to recording a reading.	Charge the SEM Scanner per Section 3.2 I.
No display is visible when the Action Button is pressed and the unit has been actively charged for 6 hours.	Contact your Product Specialist or Customer Service.
The number of pressure bars illuminated does not change when the sensor is pressed.	Contact your Product Specialist or Customer Service.
The charging indicator (blue light) does not illuminate when the SEM Scanner unit is positioned on the charger.	<p>Ensure the charging mat is connected to a power source and all cables are securely connected.</p> <p>Ensure the SEM Scanner is positioned securely in the charging mat cradle.</p> <p>If the charging mat continues to not charge contact your Product Specialist or Customer Service.</p>
The display is corrupted.	Do not continue to use the device. Try turning the device off and then back on. If this does not resolve the problem, contact your Product Specialist or Customer Service.
There are visible cracks anywhere on the device.	Do not continue to use the device. Contact Customer Service.
The thin covering over an electrode is peeling off, or an electrode is separating from the flexible membrane.	Do not continue to use the device. Contact Customer Service.

**Table5. Troubleshooting**

## 6. Guidance and Manufacturer's Declaration – Electromagnetic Emissions

### 6.1. Electromagnetic Environment

This data is included pursuant to IEC 60601 labelling requirements.

The SEM Scanner is intended for use in the electromagnetic environment specified in Table 6. The user of the SEM Scanner should ensure that it is used in such an environment.

Emissions Test	Compliance	Electromagnetic Environment – Guidance
RF emissions CISPR 11	Group 1	The SEM Scanner device uses RF energy only for its internal function. Therefore, its RF emissions are very low and are not likely to cause any interference in nearby electronic equipment.  The SEM Scanner is suitable for use in all establishments other than domestic and in establishments connected to a low-voltage power supply network which supplies buildings used for domestic purposes.
RF emissions CISPR 11	Class A	
Harmonic emissions IEC 61000-3-2	Complies	
Voltage fluctuations/ flicker emissions IEC 61000-3-3	Complies	

**Table 6. Electromagnetic Environment**

## 6.2. Electromagnetic Immunity

Immunity Test	IEC 60601 Test Level	Compliance	Electromagnetic Environment - Guidance
Electrostatic discharge (ESD) IEC 61000-4-2	$\pm 6$ kV contact $\pm 8$ kV air	$\pm 6$ kV contact $\pm 8$ kV air	Floors should be wood, concrete or ceramic tile. If floors are covered with synthetic material, the relative humidity should be at least 30%.
Electrical fast transient/burst IEC 61000-4-4	$\pm 2$ kV for power supply lines $\pm 1$ kV for input/output lines	$\pm 2$ kV for power supply lines n/a (unit does not contain any signal, control, or telcom lines)	Mains power quality should be that of a typical commercial or hospital environment.
Surge IEC 61000-4-5	$\pm 1$ kV line(s) to line(s) $\pm 2$ kV lines to earth	$\pm 1$ kV line(s) to line(s) $\pm 2$ kV lines to earth	Mains power quality should be that of a typical commercial or hospital environment.
Voltage dips, short interruptions, and voltage variations on power supply input lines IEC 61000-4-11	<5% UT (>95% dip in UT) for 0.5 cycle 40% UT (60% dip in UT) for 5 cycles 70% UT (30% dip in UT) for - 25 cycles <5% UT (>95% dip in UT) for 5s	<5% UT (>95% dip in UT) for 0.5 cycle 40% UT (60% dip in UT) for 5 cycles 70% UT (30% dip in UT) for 25 cycles <5% UT (>95% dip in UT) for 5s	Mains power quality should be that of a typical commercial or hospital environment. If the user of the SEM Scanner charging system requires continued operation during power mains interrupts, it is recommended that the SEM Scanner system be powered from an uninterruptible power supply or a battery.
Power frequency (50/60 Hz) magnetic field IEC 61000-4-8	3 A/m	3 A/m	Power frequency magnetic fields should be a levels characteristic of a typical location in a typical commercial or hospital environment.

Immunity Test	IEC 60601 Test Level	Compliance	Electromagnetic Environment - Guidance
Conducted RF IEC 61000-4-6	3 Vrms 150 kHz to 80 MHz	3 Vrms	Portable and mobile RF communications equipment should be used no closer to any part of the SEM Scanner system, including cables, than the recommended separation distance calculated from the equation applicable to the frequency of the transmitter.
Radiated RF IEC 61000-4-3	3 V/m 80 MHz to 2.5 GHz	3 V/m	<p>Recommended separation distance:</p> $d = 1.2 \cdot \sqrt{P} \quad 150\text{kHz to } 80 \text{ MHz}$ $d = 1.2 \cdot \sqrt{P} \quad 80 \text{ MHz to } 800 \text{ MHz}$ $d = 2.3 \cdot \sqrt{P} \quad 800\text{MHz to } 2.5 \text{ GHz}$ <p>where P is the maximum output power rating of the transmitter in watts (W) according to the transmitter manufacturer and d is recommended separation distance in meters (m). Field strengths from fixed RF transmitter, as determined by an electromagnetic site survey a, should be less than the compliance level in each frequency range b. Interference may occur in the vicinity of equipment marked with the</p> <p>following symbol: </p>

**Table 7. Electromagnetic Immunity**

### 6.3. Separation Distance

The SEM Scanner is intended for use in an electromagnetic environment in which radiated RF disturbances are controlled. The customer or the user of the SEM Scanner can help prevent electromagnetic interference by maintaining a minimum distance between portable and mobile RF communications equipment (transmitters) and the SEM Scanner as recommended below, according to the maximum output power of the communications equipment. The recommended separation distance between portable and mobile RF communications equipment and the SEM Scanner is listed in Table 8.

Separation distance according to frequency of transmitter (meters)			
Rated maximum output power of transmitter (W)	150 kHz to 80 MHz $d = 1.2 \cdot \sqrt{P}$	80 MHz to 800 MHz $d = 1.2 \cdot \sqrt{P}$	800 MHz to 2.5 GHz $d = 2.3 \cdot \sqrt{P}$
0.01	0.12	0.12	0.23
0.1	0.38	0.38	0.73
1	1.2	1.2	2.3
10	3.8	3.8	7.3
100	12	12	23
<p>For transmitters rated at a maximum output power not listed above, the recommended separation distance <math>d</math> in meters (m) can be estimated using the equation applicable to the frequency of the transmitter, where <math>P</math> is the maximum output rating of the transmitter in watts (W) according to the transmitter manufacturer.</p> <p>NOTE: At 80 MHz and 800 MHz, the higher frequency range applies.</p> <p>NOTE: These guidelines may not apply in all situations. Electromagnetic propagation is affected by absorption and reflection from structures, objects, and people.</p>			

**Table 8. Separation Distance**

## 7. Specifications

Item	Specifications
Applied Part	Type BF
Battery Life	3 hours (typical)
Method of Cleaning and Disinfection	Clean the device as defined in Section 4
Water ingress protection	IPX1
Duty Cycle	Continuous operation
Power Source	Internally powered equipment
SEM Value Range	0.5 to 7.0 SEM Value units
SEM Value Accuracy	+/- 0.4 SEM Value units
Storage	The SEM Scanner should only be stored at temperatures ranging from -4°F (-20°C) to 113°F (45°C) at 5% to 90% relative humidity (non-condensing).
Operating Conditions	The SEM Scanner should only be operated at temperatures ranging from 59°F (15°C) to 95°F (35°C) at 5% to 90% relative humidity (non-condensing).
Charging Mat AC Mains Voltage	100-240 V
Charging Mat Mains Current	0.35 A

**Table 9. Specifications**

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**Bruin Biometrics, LLC**

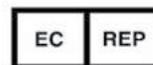
10960 Wilshire Blvd, Suite 950

Los Angeles, CA 90024 USA

Phone: (310) 268-9494

E-mail: [info@bruinbiometrics.com](mailto:info@bruinbiometrics.com)

Website: [www.bruinbiometrics.com](http://www.bruinbiometrics.com)



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