# OSTEOPROBE USER MANUAL





# 0.1 Revision History

Revision	Release Date	Reason		
D	OCT-2020	Updated as part of Technical File assessment		
		- added revision history		
		- simplified IFU		
		<ul> <li>defined tip as an accessory</li> </ul>		
		<ul> <li>updated warning and cautions</li> </ul>		
		- updated labels		
		<ul> <li>added specifications for device accuracy and resolution</li> </ul>		
E	NOV-2020	Updated with new sterilization instructions, Tip Guard, and sticker Tip IDs		
F	DEC-2020	Corrected misuse of Guide/Guard		
		Updated with new software revision screenshots		
G	FEB-2021	Updated with Tip Protector		
Н	APR-2022	Updated sterilization instructions with clearer language and images		
I	MAR-2023	Updated to combine UK/EU (OPG-032) with FDA (OPG-005) user manual. New sterile Tip design,		
		Authorized Rep, EU/UKCA labeling, & UDI labeling added		

Copyright © Active Life Scientific, Inc. All Rights Reserved OsteoProbe® is a registered trademark of Active Life Scientific, Inc. Bone Score™ is a trademark of Active Life Scientific, Inc.

Patent 7,878,987 Patent 7,966,866 Patent 8,398,568 Patent 9,895,104 Patent 9,983,107 Additional Patents Pending



The device meets e-IFU requirements of e-IFU regulation 207/2012 and directive 95/46/EC for protection of personal data.

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# 1.0 Glossary

Symbol	Definition	Symbol	Definition
	MANUFACTURER	(2)	DO NOT REUSE
	DATE OF MANUFACTURE	$R_{\mathbf{X}}^{\text{ONLY}}$	CAUTION: Federal (USA) law restricts this device to sale by or on the order of a physician.
CE	CE LOGO	(((•)))	SOURCE OF INTERFERENCE
EC REP	AUTHORIZED REPRESENTATIVE IN THE EUROPEAN COMMUNITY	STEPRIZE	DO NOT RESTERILIZE
REF	CATALOG NUMBER		DO NOT USE IF PACKAGE IS DAMAGED
SN	SERIAL NUMBER	<u>%</u>	HUMIDITY LIMITS
<b>E</b>	REFER TO INSTRUCTION MANUAL	<b>.</b>	ATMOSPHERIC PRESSURE LIMITS
Ŕ	TYPE B APPLIED PART		FRAGILE, HANDLE WITH CARE
Power Rating: 5V <b>====</b> 100 mA	POWER RATING (DIRECT CURRENT)	Ť	KEEP DRY
	TEMPERATURE LIMITS	$\sum$	USE-BY DATE
UK CA	UKCA LOGO	UKRP	UK RESPONSIBLE PERSON
MD	MEDICAL DEVICE		

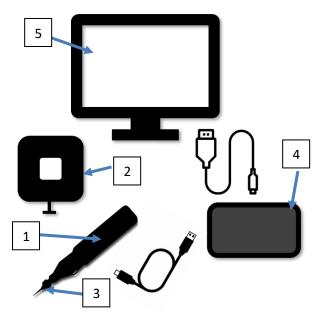


# 2.0 Descriptive Information

United States	European Union/United Kingdom
2.1 Intended Users	
The OsteoProbe system is to be used when performing an assessment of bone tissue's resistance to microindentation. OsteoProbe is intended to be used in a medical exam room, on the order of a physician, by healthcare professionals (nurses, physicians, or physician's assistants) trained in sterile technique, handling and disposal of biohazardous sharps, and application of local anesthetic. OsteoProbe users must complete an official training session prior to using the system. Training includes proper handling of the Stylus and Tips, measurement technique, reprocessing, and patient preparation. All components, other than the sterile cover and Tip Assemblies, are provided nonsterile. The reusable components of the system must be reprocessed using a cleaning and intermediate-level disinfection procedure after each use.	The OsteoProbe® system is to be used when performing an assessment of bone tissue's resistance to microindentation. The OsteoProbe® system incorporates a sterilized single-use, disposable Tip that connects to a reusable hand-held Stylus, which is connected through an electronics adapter to a computer. Measurements are displayed and stored on the computer. OsteoProbe® is intended to be used in a medical exam room, on the order of a physician, by healthcare professionals (nurses, physicians, or physician's assistants) trained in sterile technique, handling and disposal of biohazardous sharps, as well as application of local anesthetic. OsteoProbe® users must complete an official training session prior to using the system. Training includes proper handling of the Stylus and Tips, measurement technique, reprocessing, and patient preparation. All components, other than the sterile cover and Tip Assemblies, are provided non-sterile. The reusable components of the system may be reprocessed using a cleaning and intermediate-level disinfection procedure. The system has a 5-year expected service life.
2.2 Indications The OsteoProbe is indicated for use as a measurement tool to measure bone tissue resistance to microindentation on the tibia in adults. The clinical significance of resistance to microindentation is unknown. The device is not intended to diagnose or treat any clinical condition.	OsteoProbe <sup>®</sup> is indicated to measure bone material quality on skeletally mature adults on the mid-shaft of the left or right tibia.
<ul> <li>2.3 Contraindications</li> <li>Measurements should not be obtained in any patients with the following conditions: <ol> <li>allergy to anesthetic</li> <li>allergy to stainless steel</li> <li>active infection undergoing local or systemic antibiotic treatment</li> <li>history of tibial fracture, retained tibial implants or active lower leg trauma (i.e. abrasions, hematoma, etc.).</li> <li>known needle phobia</li> </ol> </li> <li>There are no other known contraindications although additional contraindications may exist that are not known.</li> </ul>	Patients with an allergy to local anesthetic, an active infection, or a systemic infection should not be measured. There are no other known contraindications.



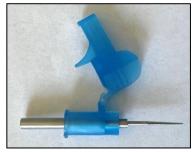
## 2.4 Description of the Device



The OsteoProbe system consists of a Stylus (1), a Holder (2), a singleuse disposable Tip Assembly (3), an Electronics adapter (4), and an Operator Interface (5).

The sale, distribution, and use of the OsteoProbe are restricted to prescription use in accordance with 21 CFR 801.109. Federal law (United States of America) restricts this device to use by, or on the order of, a physician.

2.4.1 The Tip Assembly



The Tip is a single-use disposable that is attached to the Stylus to perform a measurement. It is the only part of the device intended to contact the patient. The Tip is retained by a polypropylene Guide. The Guide includes a safety cover feature to protect the Tip during attachment and removal. Both the Tip and the Guide make up the Tip Assembly.

### 2.4.2 The Stylus



The Stylus consists of an outer Handle and an internal Body. The Stylus contains an actuation mechanism and sensor that measures the indentation depth of a Tip.

2.4.3 The Holder & Reference Materials







Performance Check Block

The Holder secures Reference Materials for measurement. Indentations are made on Reference Blocks after each measurement. Indentations can be made on Performance Check Blocks to ensure system is functioning as expected.

**Warning:** Reference Blocks are single use only and cannot be sterilized or reprocessed.



### 2.4.4 Electronics Adapter



The Electronics adapter converts the signal from the Stylus which is read by the software on the Operator Interface.

2.4.5 The Operator Interface



A computer collects, displays, and stores measurement data.

### 2.4.6 Accessories



The Stylus can be covered by a single-use sterile cover during use.

The single-use sterile Tip connects through the distal end of the single-use sterile cover. The sterile cover is a non-patient contacting accessory.

## 2.5 Accuracy and Precision

Accuracy and precision were evaluated in bench studies and a clinical variability study, resulting in the following variability values.

Quantification of Variability of OsteoProbe measuring BMSi Shown in BMSi units with 95% CI				
	Estimate	95% LB	95% UB	
Device Variability (BMSi)	0.4	0.3	0.6	
Operator Variability (BMSi)	0.5	0.3	1.1	
Bone Variability (BMSi)2.11.92.3				
Intra Operator Clinical Variability (BMSi)	4.8	3.8	6.4	
Inter Operator Clinical Variability (BMSi)	6.5	5.2	8.7	



# 3.0 Safety Warnings & Cautions

**Definitions:** 

▲ Warning Indicates risks to the safety of the patient or user. Failure to follow warnings may result in injury to the patient or user.

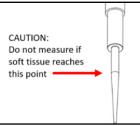
▲ Caution Indicates risk of improper use and/or damage to the equipment. Failure to follow cautions may result in loss of function of product damage.

**Note** Indicates special information to clarify instructions or present additional useful information.

### 3.1 Warnings

To avoid potential injury to the user and the patient and/or damage to the equipment, please note the following warnings:

- 1. IN USA ONLY: This device is not intended to diagnose or treat a clinical condition, and no data have been evaluated by FDA regarding clinical benefits.
- 2. The following conditions may complicate measurement, increase variability, or prevent measurement entirely:
  - a. Local edema
  - b. Prior clinical or stress fracture in the tibia diaphysis
  - c. Dermatological lesions in the area of measurement
  - d. Focal tibial lesions like in primary or metastic tumor
  - e. Excessive soft tissue at the site of measure such that the Tip cannot reach the tibia (often associated with severe obesity)
- 3. OsteoProbe has not been studied for use in adolescents or children.
- 4. Failure to follow the instructions, warnings, and precautions in this manual may lead to injury or damage to the equipment.
- 5. Measuring an area other than the left or right tibia could lead to serious harm to the patient.
- 6. This equipment is only to be used by qualified personnel, who have completed training of the use of the equipment.
- 7. To avoid the risk of electrical shock, only use the equipment with the provided Power Supply and AC Cable.
- 8. To avoid risk of electrical shock, equipment must be used on battery power or only be connected to a supply mains with protective earth.
- 9. To avoid the risk of electrical shock, do not contact the Stylus to a source of voltage other than the Stylus Cable and Electronics.
- 10. To electrically isolate circuits from supply mains on all poles simultaneously, disconnect the Power Supply from the Operator Interface.
- 11. The equipment is <u>non-sterile</u> so it is not suitable for an operating room environment. Introducing non-sterile equipment into an operating room could lead to cross-contamination.
- 12. Do not use a Tip Assembly if it is non-sterile or if its sterility has been compromised. Using a non-sterile Tip Assembly to make a measurement could lead to serious harm to the patient.
- 13. Tip Assemblies are single use only and cannot be resterilized or reprocessed.
- 14. Do not use Tip Assemblies if the package is damaged or if the use-by date has passed.
- 15. Tip Assemblies are sharp and may be hazardous to the user. Use caution when handling, using, and disposing of Tip Assemblies.
- 16. Reference Blocks are single use only and cannot be sterilized or reprocessed. They must be disposed after each use and cannot be used for multiple patients.
- 17. Improper cleaning and disinfection of the Stylus, Stylus Cable, or Holder could lead to serious harm to the patient or operator.
- 18. No servicing, modification, or maintenance of the equipment should be conducted by end-users. Contact Active Life Scientific, Inc. if the device is not performing.
- 19. If blood, tissue, or other contamination is observed on the device (e.g., visible blood or tissue on or in the device), contact Active Life Scientific, Inc. for return/disposal instructions.
- 20. To avoid the possibility of fracture or inaccurate measurement, ensure each indentation is at least 2mm from each prior indentation.







## 3.2 Cautions

To avoid improper use and/or damage to the equipment, please note the following cautions:

- 1. To reduce the risk of damage to the equipment, only use the approved cleaning, disinfection, and sterilization methods described in Section 7.0 Operating Instructions.
- 2. Do not immerse the equipment in liquid.
- 3. Do not attempt to sterilize any part of the equipment.
- 4. Avoid rough handling or dropping of the equipment or any component of the equipment to prevent damage by mechanical shock.
- 5. Tips can be blunted by getting dropped or by touching the metal of the Holder. If this occurs at any time, the Tip should be discarded to avoid increased variability in measurements.
- 6. All components of the equipment should be stored and transported in the provided Carrying Case.
- 7. To shut down the equipment, close the OsteoProbe software and shutdown the Operator Interface. If the equipment is shut down during measurement, results may not be saved.
- 8. To avoid accidental detachment of the Stylus Cable and loss of connectivity, always hold the Stylus by the black Handle ABOVE the USB port on the Body during use.
- 9. Carefully unpack the equipment and check for any damage that may have occurred during shipment. If damage is detected, refer to Section 11.0 Warranty & Return Policy.
- 10. Portable RF communications equipment (including peripherals such as antenna cables and external antennas) should be used no closer than 30 cm (12 inches) to any part of the OsteoProbe, including cables specified by the manufacturer. Otherwise, degradation of the performance of this equipment could result.
- 11. A risk of increased emissions or decreased immunity may result if any additional cables are attached.
- 12. Use of this equipment adjacent to or stacked with other equipment should be avoided because it could result in improper operation. If such use is necessary, this equipment and the other equipment should be observed to verify that they are operating normally.
- 13. Use of accessories, transducers and cables other than those specified or provided by the manufacturer of this equipment could result in increased electromagnetic emissions or decreased electromagnetic immunity of this equipment and result in improper operation.
- 14. When performing indentations on the Reference Block, to avoid increased variability in measurements, ensure that each indentation site is at least 1 mm away from other indentations sites and at least 4 mm away from any edge of the Reference Block.

#### Note: The warranty is void if any of these warnings or precautions are disregarded.



# 3.3 Electromagnetic Compatibility

The OsteoProbe is intended to be used in a professional healthcare environment. Proper use of the OsteoProbe will result in successful patient measurements of acceptable accuracy and precision. The Essential Performance of the OsteoProbe is related to the accuracy of the measurement sensor. If the OsteoProbe is used improperly, including using it in the presence of excessive electromagnetic disturbances, the device may experience degraded performance. This could include decreased measurement accuracy and/or precision, or unexpected errors requiring the device to be reset.

This device complies with part 15 of the FCC Rules. Operation is subject to the following two conditions: (1) This device may not cause harmful interference, and (2) this device must accept any interference received, including interference that may cause undesired operation.

Note: This equipment has been tested and found to comply with the limits for a Class A digital device, pursuant to part 15 of the FCC Rules. These limits are designed to provide reasonable protection against harmful interference when the equipment is operated in a commercial environment. This equipment generates, uses, and can radiate radio frequency energy and, if not installed and used in accordance with the instruction manual, may cause harmful interference to radio communications. Operation of this equipment in a residential area is likely to cause harmful interference in which case the user will be required to correct the interference at his own expense.

The OsteoProbe requires special precautions regarding EMC and needs to be installed and put into service according to the EMC information provided in these accompanying documents.

▲ CAUTION: Portable RF communications equipment (including peripherals such as antenna cables and external antennas) should be used no closer than 30 cm (12 inches) to any part of the OsteoProbe, including cables specified by the manufacturer. Otherwise, degradation of the performance of this equipment could result.

▲ CAUTION: A risk of increased emissions or decreased immunity may result if any additional cables are attached.

CAUTION: Use of this equipment adjacent to or stacked with other equipment should be avoided because it could result in improper operation. If such use is necessary, this equipment and the other equipment should be observed to verify that they are operating normally.

▲ CAUTION: Use of accessories, transducers and cables other than those specified or provided by the manufacturer of this equipment could result in increased electromagnetic emissions or decreased electromagnetic immunity of this equipment and result in improper operation.

Guidance and manufacturer's declaration – electromagnetic emissions				
Emissions test	Compliance	Electromagnetic environment - guidance		
RF emissions CISPR 11	Group 1	The OsteoProbe uses RF energy only for its internal function. Therefore, its RF emissions are very low and are no likely to cause any interference in nearby electronic equipment.		
RF emissions CISPR 11	Class A	The OsteoProbe is suitable for use in all establishments, including domestic establishments and those directly connected to		
Harmonic emissions IEC 61000-3-2	Class A	the public low-voltage power supply network that supplies buildings used for domestic purposes. Warning: this system is intended for use by healthcare professionals only.		
Voltage Fluctuations IEC 61000-3-3	Complies			

The OsteoProbe is intended for use in the electro	magnetic environment specified below. The customer or	the user of the OsteoProbe should assure that it is used	d in such an environment.
Immunity test	IEC 60601 test level	Compliance level	Electromagnetic environment - guidance
Electrostatic discharge (ESD) IEC 61000-4-2	<u>+</u> 8kV contact <u>+</u> 15kV air	+8kV contact + 15kV air	Floors should be wood, concrete or ceramic tile. I floors are covered with synthetic material, the relative humidity should be at least 30%.
Electrical fast transient/burst IEC 610004-4	+2kV for power supply lines	+2kV for power supply lines	Mains power quality should be that of a typical commercial or hospital environment
Surge IEC 61000-4-5	<u>+1kV line(s) to line</u> +2kV line(s) to earth	+1kV line(s) to line +2kV line(s) 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	0 % <i>U</i> T; 0,5 cycle At 0°, 45°, 90°, 135°, 180°, 225°, 270° and 315°	0 % <i>U</i> T; 0,5 cycle At 0°, 45°, 90°, 135°, 180°, 225°, 270° and 315°	Mains power quality should be that of a typical commercial or hospital environment. If the user of the OsteoProbe requires continued operation
IEC 61000-4-11	0 % UT; 1 cycle and 70 % UT; 25/30 cycles h) Single phase: at 0° 0 % UT; 250/300 cycle	0 % UT; 1 cycle and 70 % UT; 25/30 cycles h) Single phase: at 0° 0 % UT; 250/300 cycle	during power mains interruptions, it is recommended that the OsteoProbe be powered from an uninterruptible power supply or a battery
Power frequency (50/60 Hz) magnetic field IEC 61000-4-8	30 A/m	30 A/m	Power frequency magnetic fields should be a levels characteristic of a typical location in a typical commercial or hospital environment.

Guidance and manufacturer's declaration – electromagnetic immunity						
The OsteoProbe is intended for use in the electroma	gnetic environment specified below. The customer or t	he user of the OsteoProbe should assure that it is used i	n such an environment.			
Immunity test	Immunity test IEC 60601 test level Compliance level Electromagnetic environment - guidance					
Conducted RF	Conducted RF 3 Vrms 3 Vrms Portable and mobile RF communications					
IEC 61000-4-6 0,15 MHz – 80 MHz 0,15 MHz – 80 MHz equipment should be used no of the OsteoProbe, including of the OsteoProbe, includ						
6 Vrms in ISM and amateur radio bands between 0,15 MHz and 80 MHz       6 Vrms in ISM and amateur radio bands between 0,15 MHz and 80 MHz       recommended separation distance from the equation applicable to the 80 % AM at 1 kHz         80 % AM at 1 kHz       80 % AM at 1 kHz       the transmitter.						



Guidance and manufacturer's declaration – electromagnetic immunity					
The OsteoProbe is intended for use in the electromagnetic environment specified below. The customer or the user of the OsteoProbe should assure that it is used in such an environment.					
Immunity test	IEC 60601 test level	Compliance level	Electromagnetic environment - guidance		
			Recommended separation distance		
Radiated RF	3 V/m	3 V/m	d = [3.5/3] VP 80 MHz to 800 MHz		
IEC 61000-4-3	80 MHz to 2.7 GHz	80 MHz to 2.7 GHz	d = [7/3] VP 800 MHz to 2.7 GHz		
			where P is the maximum output power rating of the transmitter in watts (W) according to the transmitter manufacturer and d is the recommended separation distance in meters (m). Field strengths from fixed RF transmitters, as determined by an electromagnetic site survey, should be less than the compliance level in each frequency range. Interference may occur in the vicinity of equipment marked with the following symbol:		
			(((•)))		
NOTE 1 At 80 MHz and 800 MHz, the higher frequency range applies.					
NOTE 2 These guidelines may not apply in all situations. Electromagnetic propagation is affected by absorption and reflection from structures, objects and people.					

Field strengths from fixed transmitters, such as base stations for radio (cellular/cordless) telephones and land mobile radios, amateur radio, AM and FM radio broadcast and TV broadcast cannot be predicted theoretically with accuracy. To assess the electromagnetic environment due to fixed RF transmitters, an electromagnetic site survey should be considered. If the measured field strength in the location in which the OsteoProbe is used exceeds the applicable RF compliance level above, the OsteoProbe should be observed to verify normal operation. If abnormal performance is observed, additional measures may be necessary, such as re-orienting or relocating the OsteoProbe.

Guidance and manufacturer's declaration – electromagnetic immunity					
The OsteoProbe is intended for use in the electromagnetic environment specified below. The customer or the user of the OsteoProbe should assure that it is used in such an environment.					
Immunity test	IEC 60601 test level	Compliance level	Electromagnetic environment - guidance		
IMMUNITY to proximity fields from RF wireless	MHz – Modulation – Field	MHz – Modulation – Field	Portable and mobile RF communications		
communications equipment	Strength	Strength	equipment should be used no closer to any part of		
			the OsteoProbe, including cables, than the		
	385 - 18 Hz - 27 V/m	385 - 18 Hz - 27 V/m	recommended separation distance calculated		
	450 - 18 Hz - 28 V/m	450 - 18 Hz - 28 V/m	from the equation applicable to the frequency of		
	710 - 217 Hz - 9 V/m	710 - 217 Hz - 9 V/m	the transmitter.		
	745 - 217 Hz - 9 V/m	745 - 217 Hz - 9 V/m			
	780 - 217 Hz - 9 V/m	780 - 217 Hz - 9 V/m	Recommended separation distance		
	810 - 18 Hz - 28 V/m	810 - 18 Hz - 28 V/m	E = [6/d] VP		
	870 - 18 Hz - 28 V/m	870 - 18 Hz - 28 V/m	d = [6/E] VP		
	930 - 18 Hz - 28 V/m	930 - 18 Hz - 28 V/m	where P is the maximum output power rating of		
	1720 - 217 Hz - 28 V/m	1720 - 217 Hz - 28 V/m	the transmitter in watts (W) according to the		
	1845 - 217 Hz - 28 V/m	1845 - 217 Hz - 28 V/m	transmitter manufacturer, d is the recommended		
	1970 - 217 Hz - 28 V/m	1970 - 217 Hz - 28 V/m	separation distance in meters (m), and E is the		
	2450 - 217 Hz - 28 V/m	2450 - 217 Hz - 28 V/m	field strength in V/m. Field strengths from fixed R		
	5240 - 217 Hz - 9 V/m	5240 - 217 Hz - 9 V/m	transmitters, as determined by an electromagneti		
	5500 - 217 Hz - 9 V/m	5500 - 217 Hz - 9 V/m	site survey, should be less than the compliance		
	5785 - 217 Hz - 9 V/m	5785 - 217 Hz - 9 V/m	level in each frequency range. Interference may		
			occur in the vicinity of equipment marked with th		
			following symbol:		
			$((i_{\alpha}))$		
			(((•)))		
		ov absorption and reflection from structures, objects an			

NOTE: These guidelines may not apply in all situations. Electromagnetic propagation is affected by absorption and reflection from structures, objects and people.

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

Rated maximum output power of	Separation distance according to frequency of transmitter (m)			
transmitter (W)	80 to 800 MHz d = [3.5/3] VP	800 MHz to 2.7 GHz d = [7/3] √P	710, 745, 780, 5240, 5500, 5785 d = [6/9] VP	385, 450,810, 870, 930, 1720, 1845, 1970, 2450 d = [6/28] √P
0.01	0.117	0.233	0.067	0.021
0.1	0.369	0.738	0.211	0.070
1	1.170	2.333	0.667	0.214
10	3.689	7.379	2.108	0.700
100	11.667	23.333	6.670	2.143

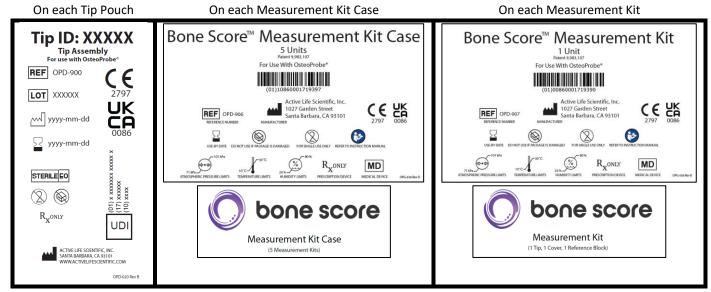
For transmitters rated at a maximum output power not listed above, the recommended separation distance d in meters (m) can be estimated using the equation applicable to the frequency of the transmitter, where P is the maximum output power rating of the transmitter in watts (W) according to the transmitter manufacturer.

NOTE 1 At 80 MHz and 800 MHz, the separation distance for the higher frequency range applies.

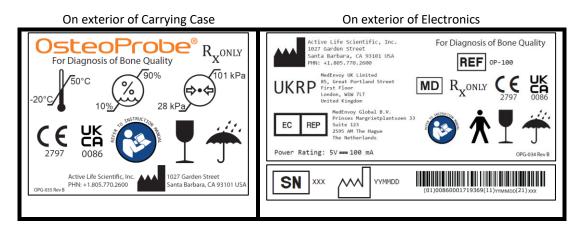
NOTE 2 These guidelines may not apply in all situations. Electromagnetic propagation is affected by absorption and reflection from structures, objects and people.



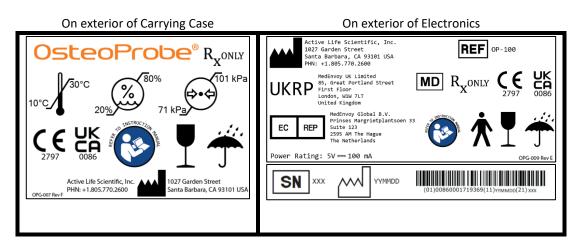
## 3.4 General Safety Labels



## 3.4.1 European Union / United Kingdom Specific Labels



### 3.4.2 United States Specific Labels





# 4.0 Summary of Clinical Safety Study

An IDE approved clinical trial was performed to evaluate the safety of the OsteoProbe system during clinical use. The clinical study was designed as a prospective, single center, open label clinical study to collect safety data associated with the use of the OsteoProbe System.

### 4.1 Demographic Information

40 subjects were measured (30 females and 10 males). Subject age ranged from 22 to 73 years old, with a mean age of 46. The mean BMI for subjects was 29.75, which per the National Institute of Health, is considered overweight bordering on obese. Race/ethnicity of the subjects were: 32 (80%) Caucasian/Non-Hispanic, 2 (5%) Caucasian/Hispanic, 2 (5%) Asian/Non-Hispanic, 1 (2.5%) Asian/Caucasian/Non-Hispanic, 1 (2.5%) Black/African American/Non-Hispanic, 1 (2.5%) Native American/Non-Hispanic, and 1 (2.5%) Native Hawaiian/Non-Hispanic. All 40 subjects had an average Numerical Rating Score (NRS) for Pain prior to the procedure of 0.

## 4.2 Primary Endpoint

The primary hypothesis was that the probability of experiencing device-related serious adverse events (SAEs) for subjects treated with the device was smaller than the performance goal of 1%.

No patient in the prospective data observed a device-related SAE. The primary endpoint was found to be successful, as no device-related SAEs (0%) were observed in the study.

## 4.3 Secondary Endpoints

The secondary endpoints were:

- 1. Numerical Rating Score (NRS) Pain at Procedure, 1-day, 7-day, and 30-day visits;
- 2. BMSi scores after the Procedure;
- 3. Adverse event rates through Day 30;
- 4. Device-related adverse events through Day 30;
- 5. Serious adverse events (SAE) through Day 30; and
- 6. Unanticipated adverse device effects (UADE) through Day 30.

The NRS Pain showed a low overall pain reported by all subjects post-procedure with an average score of 0 ( $\pm$  0.2) after the procedure. The maximum change in NRS Pain in any subject was 1 immediately after the procedure and at Day-1 follow-up. At both Day 7 and Day 30 follow-up timepoints, none of the subjects reported any pain (i.e., all subjects reported an NRS Pain score of 0 out of 10). Additionally, no increase in NRS Pain was observed at later visits.

Of the 40 subjects followed for 30 days, only one adverse event was reported for knee pain. The event was not considered an SAE or UADE. The event was categorized as mild in severity, possibly related to the device and possibly related to the procedure. The subject rated the pain as a 1 on a scale of 0-10.



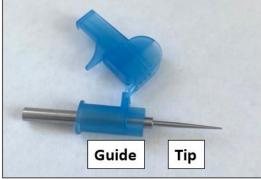
# 5.0 System Setup

All components of the equipment should be stored and transported in the provided Carrying Case.

Components included with OsteoProbe

Cover





# 5.1 Connecting the System

Plug the Power Supply into an appropriate power outlet and the plug connector of the Power Supply into the Operator Interface.

Plug the USB-B connector of the Operator Interface Cable into the Electronics and plug the USB-A connector into the Operator Interface.

Plug the USB-A connector of the Stylus Cable into the Electronics and plug the Micro-B connector into the Stylus.

### 5.2 Securing a Reference Block

Place block in Holder and tighten down Holder Screw, ensuring that the block sits completely flat in the Holder.

Note: The Holder Screw does not need to be tightened down excessively to properly secure the Reference Block in place.

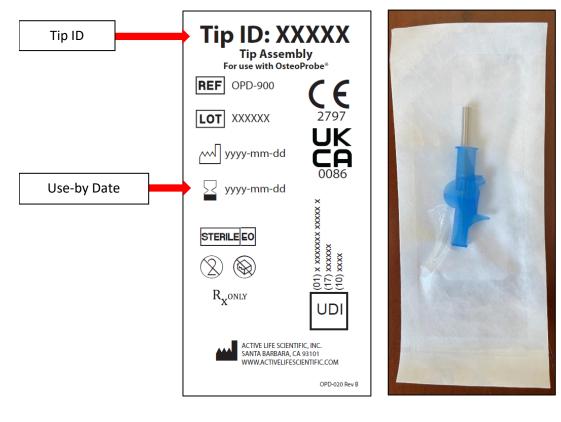
## 5.3 Handling Tip Assemblies

**WARNING**: Do not use a Tip Assembly if it is non-sterile or if its sterility has been compromised. Using a non-sterile Tip Assembly to make a measurement could lead to serious harm to the patient.

**WARNING:** Tip Assemblies are sharp and may be hazardous to the user. Use caution when handling, using, and disposing of Tip Assemblies.

**WARNING:** Tip Assemblies are single use only and cannot be resterilized or reprocessed.

**WARNING:** Do not use Tip Assemblies if the package is damaged or if the use-by date has passed.







### 5.3.1 Loading Tip Assembly onto the Stylus

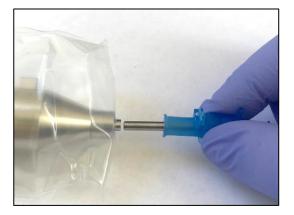
1. Cover Stylus and USB cable with sterile cover.

2. Hold the Tip Assembly by the Guide and carefully pass the Tip Assembly through the opening in the sterile cover and into the Stylus luer fitting.

3. Tighten down the Guide until it is secured to the bottom of the Stylus, ensuring the Guide captures the bottom of the sterile cover.

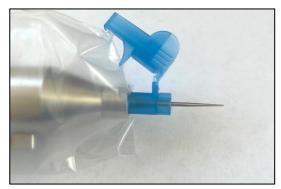
4. Press on the rounded portion of the Guide to disengage the safety cover and push it into the open position.

Note: The Guide should not wiggle or feel loose when properly loaded onto the bottom of the Stylus.











### 5.4 Software Overview

### 1. Log In Screen

Enter the Software Username and Password and select "LOG IN" to log in to the OsteoProbe Software.



2. Main Menu Screen

Select "NEW MEASUREMENT" on the Main Menu Screen to begin a new measurement.

OsteoProbe <sup>®</sup> Please select an option:		
	CLOSE PROGRAM	

3. Patient Information Screen

Fill out the patient information fields, then select "NEXT" to proceed to the Tip ID prompt.

fear Born:	Sex:		ą
	Select	-	

### 4. Tip ID Prompt

Enter in the Tip ID of the Tip Assembly to be used, then select "NEXT" to proceed to the Patient Indentations Screen and begin performing indentations.

Enter	Enter Tip ID		
Enter	Enter Tip ID		
Cancel	NEXT >		

Red text will indicate if the Tip ID is not valid or has already been used.

Enter Tip ID	Enter Tip ID
00000	000MF
Tip ID is not valid	Tip ID has already been used
Cancel NEXT >	Cancel NEXT >

5. Patient Indentation Screen

The indentation count will be displayed on the screen as indentations are performed.

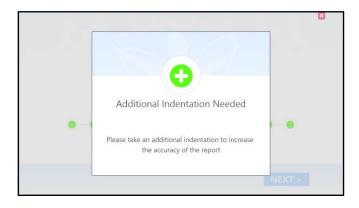
	×
Patient Indentation	
8 Indentations Remaining NEX	۲ »

If a measurement appears without actuating the device, select "TAP HERE TO UNDO THIS MEASUREMENT" to remove the false indentation.





If prompted, perform additional indentations as indicated by the Software.

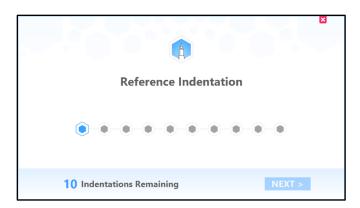


After the patient indentations are completed, select "NEXT" to proceed to the Reference Indentation Screen.

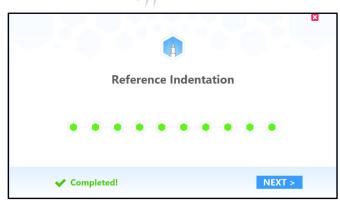


6. Reference Indentation Screen

Similar to the Patient Indentation Screen, the indentation count will be displayed on the screen as indentations are performed.



After the reference indentations are completed, select "NEXT" to proceed to the Report Screen.



7. Measurement Report Screen

The Measurement Report Screen will display the results of the Bone Score<sup>™</sup> procedure. This Report can be accessed at a later point through the "LOOKUP RECORD" button on the Main Menu of the Software.

	Measure	ment Report	
		7.6	
		d Deviation	
	3.0 Bone	1.3 Reference Material	
Version 1.4.2		Measurement # 000040	Done

8. Lookup Report

Bone Score<sup>™</sup> Reports can be accessed at any time by selecting "LOOKUP RECORD" in the Main Menu of the Software.

	arliest Date	Latest Date	Patient Birth	Year Tip ID	Measurement ID		Clear Filters
Date/Time of Mea 2/25/19 5:4		Einth Year 1962	Tel ID 000MF	Report Preview			
.,,				Date/Time	Birth Year	Tip ID	Measurement
				Bone Score™	Bone	Refe	rence Material
							View Repor



### 9. Software Indicators

The software will indicate when a Performance Check is required and will not allow new measurements to be made until a Performance Check is completed.

ERROR	
It has been over 30 days since a performance check was last performed.	
Further measurement procedures are not allowed until a performance check is completed.	
НОМЕ	

The software also monitors the device performance and may suggest a Performance Check if it detects a potential issue.

If the Electronics is disconnected from the Operator Interface at any time, the software will indicate that there is no device detected. An auditory tone will also sound indicating the disconnection.

#### Warning

No device detected. Please verify connection of stylus and device to the computer.



# 6.0 Performance Check

A successful Performance Check is required at least once every 30 days to ensure the device is functioning as expected.

1. Secure a Performance Check Block in the Holder.



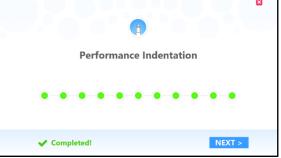
2. Load a Tip Assembly onto the Stylus.

3. Select "PERFORMANCE CHECK" on the Main Menu of the OsteoProbe Software to enter the Performance Check Mode.



4. Perform indentations on the Performance Check Block.





5. Remove the Performance Check Block and secure a Reference Block in the Holder.





6. Perform 10 indentations on the Reference Block.





7. The software will automatically determine whether the device is functioning properly.

Information	
System is Performing as Expected	
ОК	

8. If the Performance Check indicates that the device is not functioning properly, perform another Performance Check.

Warning		
Performance	e check out of range again.	e. Please try
[	ОК	

9. If the second Performance Check also indicates that the device is not functioning properly, contact Active Life Scientific, Inc.

ERRO	R
	ease verify that the Tip Assembly and ference Material Blocks are secure, and make another measurement.
lf yo	ou have made two such measurements in a row, please contact Active Life Scientific.
	ОК

10. Dispose of the Performance Check Block after a single use.



# 7.0 Operating Instructions

# 7.1 Planning and Patient Positioning

Refer to the patient's chart and discuss all relevant contraindications for use with the patient.

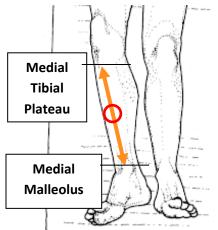
Position the patient in decubitus supine position.

Either tibia can be used for the measurement unless some local contraindication is present, in which case the other leg can be used.

Put on clean gloves.

Position the leg in external rotation to orient the flat surface of the medial tibia diaphysis horizontal (i.e., parallel to the exam table).

## 7.2 Patient Preparation



Locate the mid distance between the medial border of the tibial plateau and the medial malleolus.

Prep the investigative area in standard sterile fashion. Perform a careful disinfection of a wide area of the anterior mid tibia region using a betadine or chlorhexidine disinfectant.

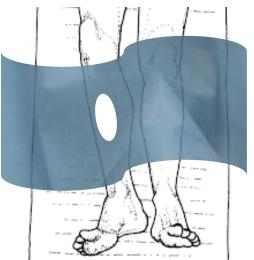
Place a sterile drape over the patient's leg with an opening at the area identified for measurement.

# Perform local anesthesia infiltration both subcutaneously and in the periosteal surface.

DISCLAIMER: The use of any medication, including any local anesthetic (e.g., lidocaine, mepivacaine, etc.), given is the responsibility of the treating healthcare professional and not an official recommendation of Active Life Scientific, Inc. Active Life Scientific, Inc. is not the manufacturer of any local anesthetic, and the

user should be familiar with the manufacturer's instructions or directions for use for all indications, side-effects, contraindications, precautions and warnings of any local anesthetic. Active Life disclaims all liability for the use, application or interpretation of the use of this information in the medical treatment of any patient.







## 7.3 Measurement Preparation

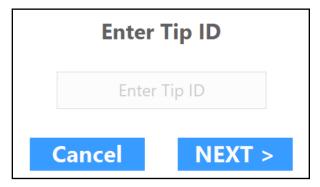
**Prepare a clean workspace near the patient with enough room for all materials.** Place the Holder on a flat, stable surface in or near this workspace.

Select "NEW MEASUREMENT" on the Main Menu Screen to begin a new measurement.

Fill out the patient information fields, then select "NEXT" to proceed to the Tip ID prompt.



Enter in the Tip ID of the Tip Assembly to be used, then select "NEXT" to proceed to the Patient Indentations Screen and begin performing indentations.



Red text will indicate if the Tip ID is not valid or has already been used.

Enter Tip ID		
000MF		
Tip ID has already been used		
Cancel NEXT >		



## 7.4 Making a Measurement

Refer to Section 5.3 Handling Tip Assemblies for more information The procedure is a full sterile procedure.

Open a sterile Tip Assembly pouch and the sterile cover pouch within the clean workspace. The opened sterile cover pouch is used as a sterile field.

'E LIFE SCIENTIFIC

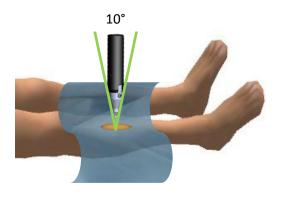
Put the Stylus into the sterile cover by grasping the inside fold of the cover and pulling over Stylus. Place covered Stylus into sterile field. Put on sterile gloves and remove the Tip Assembly from the pouch.

Insert the sterile Tip Assembly into the Stylus through the sterile cover, ensuring the Guide captures the bottom of the sterile cover.

MARNING: Using a Tip Assembly that has contacted anything non-sterile could lead to serious harm to the patient. A

Press on the rounded portion of the Guide to disengage the safety cover and push it into the open position. Pierce the skin and periosteum at the measurement site and navigate the Tip down until it reaches the cortical bone surface.

Once in place, adjust the angle of the device to become perpendicular to the tibia surface (< 10° from normal) and compress the Handle of the device toward the patient's leg to make an indentation.



For every indentation, the Handle of the device is compressed slowly and smoothly (~1  $\frac{1}{2}$  to 3 seconds).

An auditory tone will sound as each indentation is registered.

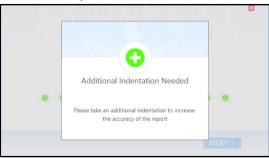
If a measurement appears when an indentation has not been made, select "TAP HERE TO UNDO THIS MEASUREMENT" to remove it. Ask an assistant or don a new set of sterile gloves after interaction with the Operator Interface.

Without pulling the Tip out of the skin, move the Tip to a new location, about 2 mm away from the previous indentation, and repeat the indentations until the software indicates that patient indentations are complete.

A minimum of 8 and a maximum of 18 indentations are possible.

If additional indentations are required, the software will prompt the operator.

All indentations are typically performed within a 1 cm<sup>2</sup> area.







After the patient indentations are completed, a different auditory tone will sound. Select "NEXT" to proceed to the Reference Indentation Screen.

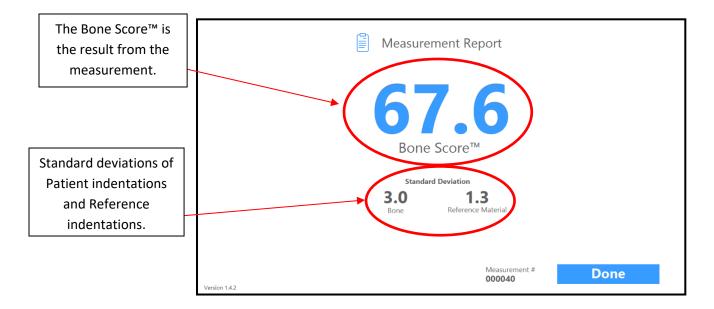
The same focus and precision used for patient indentations should be used for the reference indentations.

Maintain perpendicularity and consistent actuation speed.

Follow the software prompts and perform 10 indentations on the Reference Block.

After the reference indentations are completed, a different auditory tone will sound.

Select "NEXT" to proceed to the Report Screen.



The Measurement Report Screen will display the results of the Bone Score<sup>™</sup> procedure. This Report can be accessed at a later point through the "LOOKUP RECORD" button on the Main Menu of the Software.

Apply a sterile bandage to the measurement site on the patient's leg.



## 7.5 Disposal of Sharps and Biohazards

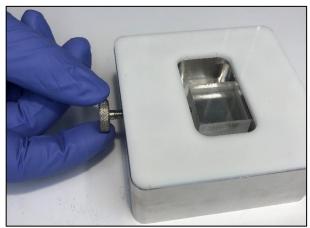
Special care should be taken when removing the Tip Assembly for disposal as it is now a biohazardous sharp.

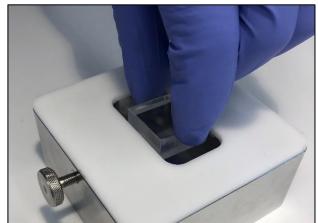
Hold the Stylus with the Tip facing away. Push the safety cover of the Guide back over the Tip until it snaps in place. Rotate the Guide to disengage it from the Stylus and remove the Tip Assembly.

Immediately dispose of the entire Tip Assembly in an appropriate Sharps container.



Unscrew the Holder Screw and remove the Reference Block. Dispose of the used Reference Block in an appropriate Biohazard container.





Check for any possible breach of the sterile cover and then remove sterile cover from Stylus and dispose, along with all other contaminated equipment, in an appropriate Biohazard container. If a breach is observed, inspect the device for soil. If blood, tissue, or other contamination is observed on the device (e.g., visible blood or tissue on or in the device), contact Active Life Scientific, Inc. for return/disposal instructions.



## 7.6 Cleaning and Disinfection Procedure (Stylus, Holder, and Stylus Cable)

Manufacturer: Active Life Scientific, Inc.Method: Cleaning (Manual) & Intermediate-Level DisinfectionDevice(s): Stylus, Holder, & Stylus Cable

WARNINGS	<ul> <li>The Stylus, Holder, and Stylus Cable must be cleaned and disinfected after every use on a patient.</li> <li>Wear appropriate protective equipment (e.g., gloves) during reprocessing and handling.</li> <li>Use only the cleaning and disinfecting procedure outlined in this document. Using unspecified cleaning and/or disinfecting procedures may damage the components or may result in incomplete disinfection.</li> </ul>
Cautions	<ul> <li>Use only the cleaning and disinfecting procedure outlined in this document. Use of cleaning and/or disinfecting procedures, including cleaning agents and germicidals, not specified in this document may damage the components.</li> <li>Do not submerge or soak the components in any liquids.</li> <li>Do not use automated washers or disinfectors to clean or disinfect the Stylus, Holder, or Stylus Cable.</li> <li>Do not sterilize the Stylus, Holder, or Stylus Cable.</li> </ul>

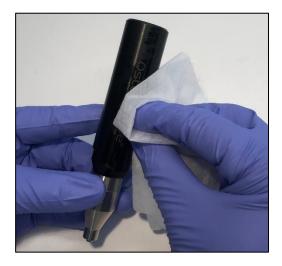
WARNING: The instructions provided below have been validated by Active Life Scientific, Inc. as being CAPABLE of preparing the device for use. It remains the responsibility of the processor to ensure that the processing as actually performed using equipment, materials, and personnel in the processing facility achieves the desired result. This normally requires validation and routine monitoring of the process.

Put on clean gloves <u>before</u> beginning the cleaning and disinfection procedure.

### 7.6.1 Cleaning the Stylus

Dispense a new towelette (Super Sani-Cloth<sup>®</sup> Germicidal Disposable Wipes). Wipe down the exterior of the Stylus with the towelette while continuously actuating the device.

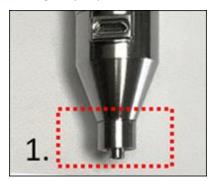
Visually inspect the Stylus for cleanliness. If visible soil remains, repeat previous steps.

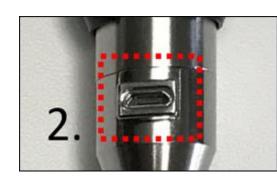




### 7.6.2 Disinfecting the Stylus

Dispense a new towelette (Super Sani-Cloth<sup>®</sup> Germicidal Disposable Wipes) and wipe down exterior of the Stylus for at least 2 minutes while continuously actuating the device. After wiping down for at least 2 minutes, use a new towelette to diligently wipe down the seams and crevices in the following areas for at least 1 minute:

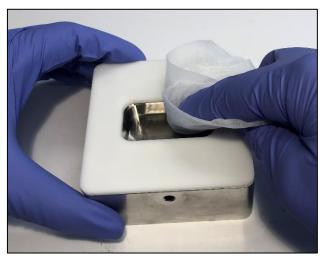






After diligently wiping down the seams and crevices for at least 1 minute, dispense a new towelette and wet all exterior surfaces of the device while paying particular attention to the areas above. Use as many towelettes as needed to ensure the surfaces remain wet for at least 2 minutes while continuously actuating the device.

Allow treated surfaces to air dry completely.





# 7.6.3 Cleaning the Holder & Holder Screw Remove the Holder Screw from the Holder.

Wipe down the exterior surfaces and pocket of the Holder with a towelette (Super Sani-Cloth<sup>®</sup> Germicidal Disposable Wipes).

Dispense a new towelette and wipe down the Holder Screw.

Visually inspect the Holder and Holder Screw for cleanliness. If visible soil remains, repeat until clean.

### 7.6.4 Disinfecting the Holder & Holder Screw

Wipe down the exterior surfaces and pocket of the Holder using as many new towelettes (Super Sani-Cloth® Germicidal Disposable Wipes) as needed to ensure the treated surfaces remain wet for at least two minutes.

Wipe down the Holder Screw using as many new towelettes as needed to ensure the treated surfaces remain wet for at least two minutes. Allow the treated surfaces to air dry completely. Reassemble the Holder Screw into the Holder.



### 7.6.5 Cleaning the Stylus Cable

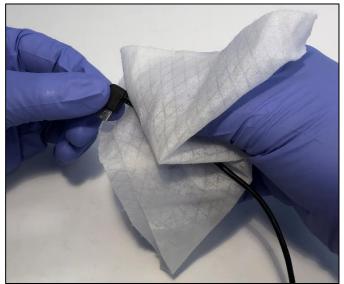
Wipe down the Stylus Cable with a new towelette (Super Sani-Cloth<sup>®</sup> Germicidal Disposable Wipes).

Visually inspect the Stylus Cable for cleanliness. If visible soil remains, repeat until clean.

### 7.6.6 Disinfecting the Stylus Cable

Wipe down the Stylus Cable using as many new towelettes (Super Sani-Cloth<sup>®</sup> Germicidal Disposable Wipes) as needed to ensure the treated surfaces remain wet for at least 2 minutes. Allow the treated surfaces to air dry completely.

Dispose of gloves and all used towelettes in an appropriate Biohazard container.



Inspect the Stylus, Holder, and Stylus Cable for any damage. Do not use if a component is damaged. Return damaged components to Active Life Scientific, Inc. for repair. Place all components back in their pockets in the Carrying Case for storage and store the Carrying Case in a dry place.



## 7.7 Cleaning Procedure (Operator Interface and Electronics)

The Operator Interface and Electronics can be cleaned as needed.

### 7.7.1 Cleaning the Operator Interface

Ensure that the Operator Interface is disconnected from the Power Supply and completely shut down. Use a dry towelette to gently wipe down the surface of the keyboard and monitor screen.

NOTE: If the Operator Interface has significant dirt or smudges on the keyboard or monitor screen, it is appropriate to use a towelette that has been slightly wetted with IPA.

### 7.7.2 Cleaning the Electronics

Wet a towelette with IPA and wipe down all exterior surfaces.

NOTE: use caution when cleaning near the USB ports to avoid saturation with IPA. If the ports do get wet, let the Electronics dry completely prior to connecting.



# 8.0 Disposal

### 8.1 Disposal of OsteoProbe Equipment

OsteoProbe should be returned to Active Life Scientific, Inc. for disposal. See Section 11.2 Return Policy for information on how to return products.

### 8.2 Disposal of Tip Assemblies

Used Tip Assemblies should be considered contaminated 'sharps' and disposed of accordingly. See Section 7.5 Disposal of Sharps and Biohazards.

### 8.3 Disposal of Reference Blocks

Used Reference Blocks should be considered contaminated and disposed of accordingly. See Section 7.5 Disposal of Sharps and Biohazards.

### 8.4 Disposal of Sterile Cover

Used covers should be considered contaminated and disposed of accordingly. See Section 7.5 Disposal of Sharps and Biohazards.



# 9.0 Technical Specifications

## 9.1 System Information

The OsteoProbe system operates on a hardened Windows based computer that prevents installation or removal of software, modification to operating system parameters, blocks USB ports, and encrypts all measurement data. The computer requires no additional software to meet cybersecurity requirements.

Parameter	Parameter Value	
System Classification	US Classification:	Class II
	EU Classification:	Class IIa
Safety Certifications	Electrical Safety:	IEC 60601-1: 2012
	Electromagnetic Compatibility:	IEC 60601-1-2:2014 (4TH EDITION) CRISPR 11:2015+A1:2016 IEC 61000-4-2:2008 IEC 61000-4-3:2010 IEC 61000-4-3:2010 IEC 61000-4-5:2005 IEC 61000-4-5:2005 IEC 61000-4-8:2009 IEC 61000-4-11:2004 IEC 61000-3-2:2014 IEC 61000-3-3:2013
CE Marking	CE Marking for EUMDR 2017/745	
Type of Equipment	Medical Device	
Classification of Use	Type B Applied Part	
Intended Use	See Section 2.1	



# 9.2 Specifications

Parameter	Parameter Value	
Power Input Requirements	Voltage: Frequency: Current:	100 – 240 V~ 50 – 60 Hz 1.5 A
Stylus Dimensions	Approximately:	ø2.7 x 14.0 cm
Stylus Weight	Approximately:	240 g
Case Dimensions	Approximately:	46 x 34 x 17 cm
Case Weight	Approximately:	8 kg
Measurement Range	Operating Range: Observed Patient Scores:	27-158 BMSi 45-102 BMSi*
Accuracy/Calibration	Displacement Sensor:	±1 μm
Internet Connectivity	Wireless:	802.11b/g/n
Transport Conditions	Ambient Temperature: Relative Humidity: Atmospheric Pressure:	-20°C to 50°C 10% to 90%, non-condensing 28k Pa to 110 kPa
Operating & Storage Conditions	Ambient Temperature: Relative Humidity: Atmospheric Pressure:	10°C to 30°C 20% to 80%, non-condensing 71 kPa to 101 kPa

\*based on clinical experience from 905 patients



# 10.0 Troubleshooting

### 10.1 Operator Interface Power

If the Operator Interface is not turning on, check the following:

- 1. Check to ensure that the Power Supply is properly connected to an appropriate power outlet.
- 2. Check to ensure that the connector of the Power Supply is properly connected to the Operator Interface.
- 3. Check to ensure that the power outlet the Power Supply is plugged into has power by plugging in another device that draws power (such as a phone charger).
- 4. If the Operator Interface is still not turning on, contact Active Life Scientific, Inc.

### 10.2 Software Communication

If the Software is not registering a connection to the Stylus, check the following:

- 1. Check to ensure that the USB-B connector of the Operator Interface Cable is properly connected to the Electronics and that the USB-A connector is properly connected to the Operator Interface.
- 2. Check to ensure that the USB-A connector of the Stylus Cable is properly connected to the Electronics and that the Micro-B connector is properly connected to the Stylus.
- 3. If the Software is still not registering a connection to the Stylus, contact Active Life Scientific, Inc.



# 11.0 Warranty & Return Policy

### **11.1 Product Warranty**

Active Life Scientific, Inc. ("Company") warrants that each new OsteoProbe System("OsteoProbe"), single use Tip Assemblies for OsteoProbe ("Components"), and software for OsteoProbe ("Software") hereinafter the Products ("Products"), shall be free from defects in materials and workmanship under normal use and service and when correctly maintained for two years from the date of shipment ("Warranty Period").

Procurer agrees that before this limited warranty shall become effective, Procurer shall fully inspect each Product within five (5) days of delivery and before such Product is put to use. Further, before this limited warranty shall become effective, Procurer shall complete training. Procurer also agrees to operate the Product in accordance with Product's User Manual as provided and that failure to do so shall void this limited warranty. Procurer further agrees that any claim for breach of warranty must be made in writing promptly following the discovery of a purported defect and within the Warranty Period. Company will not be responsible for any alleged breach of warranty, which, as a result of Company's inspection, Company determines to have arisen from a cause not covered by this limited warranty. Warranties are granted to the original Procurer of the Products only, and are nontransferable without the express written consent of Company. If a valid warranty claim is received within the Warranty Period, Company will, in its sole discretion: (1) replace the product at no charge with a product that is at least functionally equivalent to the original product, or (2) refund the amount paid for the product on a prorated basis. In any event, Company's liability for breach of warranty shall be limited to the replacement value of the defective or non-conforming part or component.

This limited warranty does not apply to: (A) replacement of Products necessitated by misuse, abuse, accident, neglect, modification, alteration, adjustment, tampering, improper installation or repairs made by persons other than Company or persons expressly authorized by Company to perform repairs; (B) use of Components or Software with OsteoProbe other than those expressly approved by Company; (C) the subjugation of the Products to unusual stress or environmental conditions; (D) Acts of God, or other causes not within the control of Company; (E) Products on which any original serial numbers or other identification marks have been removed or destroyed.

If Company determines in its reasonable discretion that the claimed defect or non-conformance in the product is excluded from warranty coverage as described hereunder, it will notify the customer of such determination and will provide an estimate of the cost of replacement of the Product. In such an event, any replacement would be performed at Company's standard rates.

Products replaced under this warranty continue to be warranted as described herein during the initial Warranty Period or, if the initial Warranty Period has expired by the time the Product is replaced, for thirty (30) days after delivery of the replaced product. When a Product or component is replaced, the item provided in replacement will be the customer's property and the replaced item will be Company's property. If a refund is provided by Company, the Product for which the refund is provided must be returned to Company and will become Company's property.

If Procurer believes that a Product does not comply with the limited warranty stated above, Procurer should contact Company at the address stated at the beginning of this manual or by email at customer.care@activelifescientific.com, describing the problem and providing Serial Number(s) of Products. The Company will then schedule a mandatory remote diagnosis session. If directed by Company, Procurer shall return the Products, at the customer's expense unless Company specifically agrees otherwise in writing, properly packaged in a Company approved shipping container and properly identified by a Return Material Authorization Form issued by Company. Company does not accept any COD returns. Products returned without a Return Material Authorization Form will be refused and returned at Procurer's expense.

#### THIS LIMITED WARRANTY IS EXCLUSIVE AND IN LIEU OF ALL OTHER WARRANTIES OR REPRESENTATIONS, EXPRESSED, OR IMPLIED, EITHER IN FACT OR BY OPERATION OF LAW, STATUTORY OR OTHERWISE, INCLUDING BUT NOT LIMITED TO IMPLIED WARRANTIES OF MERCHANTABILITY, FITNESS FOR A PARTICULAR PURPOSE AND NON-INFRINGEMENT. NO REPRESENTATION OR STATEMENT OF COMPANY MAY CHANGE OR ALTER THIS LIMITED WARRANTY.

COMPANY SHALL HAVE NO FURTHER LIABILITY FOR DAMAGES, LOSSES, COST OR FEES OF ANY KIND OR NATURE, WHETHER FORESEABLE OR NOT, INCLUDING BUT NOT LIMITED TO ATTORNEY'S FEES AND CONSEQUENTIAL, GENERAL, SPECIAL, EXEMPLARY OR PUNITIVE DAMAGES, REGARDLESS OF THE FORM OF ANY CLAIM, WHETHER IN CONTRACT, TORT OR OTHERWISE, ARISING OUT OF OR RELATED TO THE USE OF COMPANY PRODUCTS EVEN IF COMPANY HAS BEEN ADVISED OF THE POSSIBILITY OF SUCH DAMAGES, LOSSES, COST OR FEES.

Any claims for breach of this limited warranty shall be governed by California law and must be brought in a State or Federal court in California.

COMPANY EXPRESSLY DISCLAIMS ANY AND ALL RESPONSIBILITY FOR ANY UNAPPROVED USE OF THE PRODUCTS.



## 11.2 Return Policy

A Returned Merchandise Authorization (RMA) Form must be obtained from Company before returning product. To obtain an RMA Form, please contact Company Customer Service at 805.770.2600 or email:

### customer.care@activelifescientific.com

Upon issuing an RMA Form, Company will provide further instruction for returning OsteoProbe System. Please include the completed RMA Form with the return.

Please follow instructions provided by Company to clean all potentially contaminated products prior to returning them to Company. It is unlawful to transport bio-contaminated products through interstate commerce, unless they are properly packaged and labeled as such.

If a return does not comply with these terms, Company reserves the right to destroy the product at the customer's expense. Any replacement would be at the customer's expense.



# **12.0 Contact Information**

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EC

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