

# USER MANUAL

## Stance Analyzer™

Companion Animal Health®



Companion Animal Health®  
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Newark, DE 19702


Phone 302.709.0403  
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
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
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
## 1. Important Safety Information


Explanation of attention words and symbols used in this guide.

“” This is the safety alert symbol. It is used to alert you to potential personal injury hazards. Obey all safety messages that follows this symbol to avoid possible injury or death.


“” WARNING indicates a hazardous situation, which, if not avoided, could result in death or serious injury.

“” CAUTION, used without the safety alert symbol, indicate a hazardous situation which, if not avoided, could result in harm to your pet.

“” NOTICE is used to address safe use practices not related to personal injury.

“” WARNING – Do not place a pet on the Stance Analyzer without the pad cover in place. Toe and toe nails may become stuck in the seam or edge of the Stance Analyzer.

 CAUTION – RISK OF EXPLOSION IF BATTERY IS REPLACED BY AN INCORRECT TYPE. DISPOSE OF USED BATTERIES ACCORDING TO THE INSTRUCTIONS.

“” NOTICE – The RECEIVER SHOULD BE PLACED IN A SAFE PROTECTED AREA, where it will not be dropped or fall. Do not immerse any part of the unit in water. Do not pour water directly on any part of the unit.

Thank you for choosing the Companion Stance Analyzer. The Stance Analyzer is designed to help veterinarians and vet professionals accurately measure standing percentage of weight distribution, which may help in the diagnosis of lameness and assess treatment effectiveness.

## 2. HOW IT WORKS

This revolutionary system objectively detects and quantifies the percentage of weight a patient places on each limb giving the veterinary practitioner valuable information for targeting treatment options. The unit then quickly measures the pet's total body weight, percentage of weight distribution, center of gravity and stability. A “snap shot” of the pet's stance is taken though a remote control or directly through the Stance Analyzer software. It provides veterinarians with data that can be used to diagnose weight shifting due to standing lameness and potentially track treatment effectiveness

over time. The software allows graphs to be printed to share a pet's progress with his or her owner. The Stance Analyzer is effective for pets weighing 20 lb. up to 200 lb.

### 3. COMPONENTS

- Stance Analyzer Pad
- Stance Analyzer Remote
- USB receiver connector
- Black box with PC board and attached cord
- Windows issued laptop with preloaded software

### 4. DISPLAY DEFINITIONS

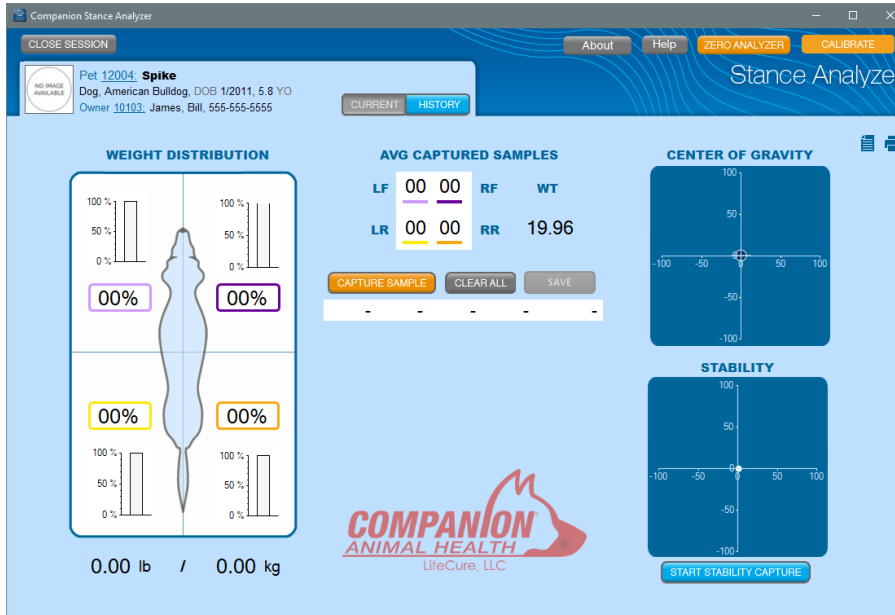
**Weight Distribution** – This area on the left side of the screen displays the percentage of weight-bearing distributed to each of the patient's limbs (Left Front, Right Front, Left Rear, Right Rear).

This is a snapshot view. (See Figure 1)

**Avg Captured Samples** – The Avg Captured Samples chart, in the middle of the screen, shows snap shots of the collected samples with the average for each limb. The most recent samples are displayed. Scroll down to view older samples. (See Figure 1)

**Center of Gravity Chart** – This graph, located on the upper right portion of the screen, displays the patient's instantaneous Center of Gravity using a dot that is in constant motion while the patient is standing. (See Figure 1)

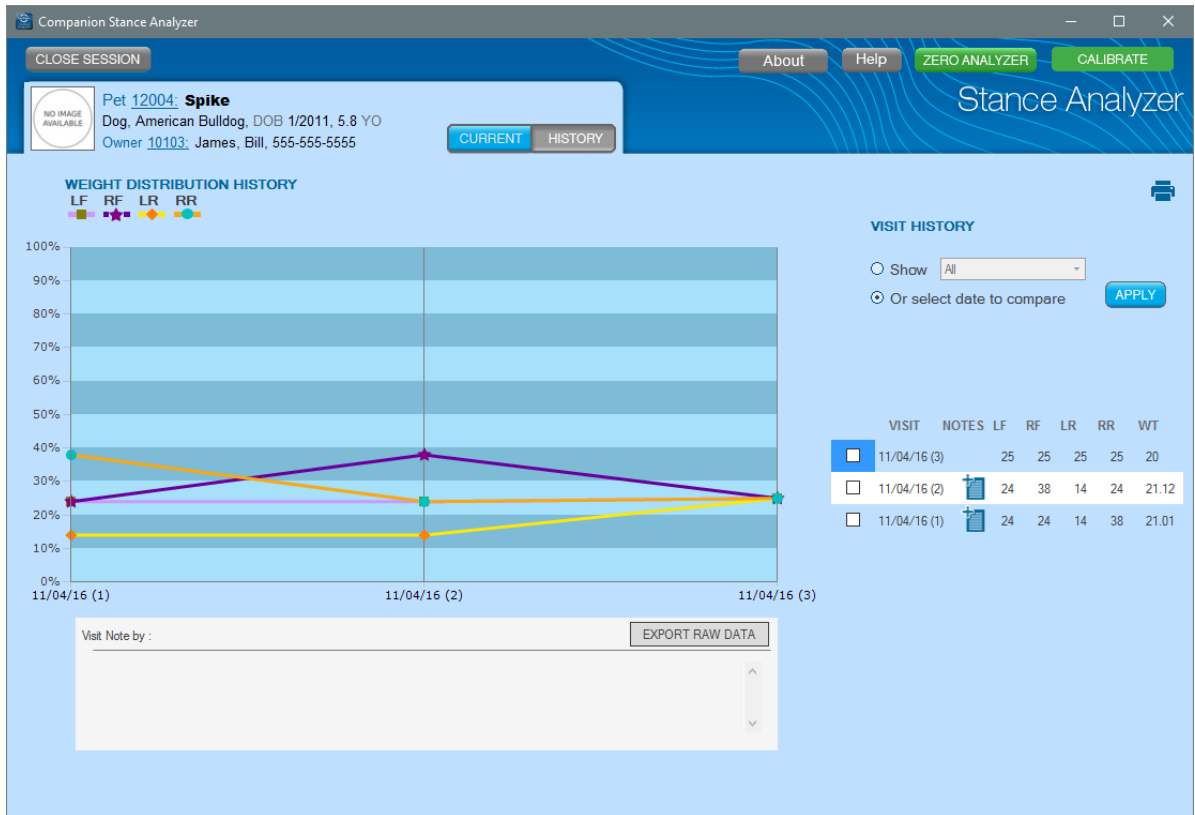
**Stability Graph** – The Stability Graph, on the bottom right of the screen, shows data collected over time via several numbers of dots tracking the patient's stability while standing. This graph reports the change in stability of the patient as collected in the most recent Stability Test. (See Figure 1)



**Figure 1**

**Weight Distribution History Graph** – This line graph plots the four numbers that were averaged for each limb during standing weight bearing collection at each date of collection to keep track of the patient’s progress from visit-to-visit. (See Figure 2)

**Visit History** – This section displays the date, four averaged numbers of each limb and the total body weight for each date data was collected. The user can also select specific dates to be displayed on the Weight Distribution History Graph for comparison. (See Figure 2)



**Figure 2**

## 5. SETTING UP THE STANCE ANALYZER

### Placement

1. Choose a flat floor surface for the placement of the Stance Analyzer pad that is within 5-6 feet of the Companion Animal Health issued laptop for a secure connection.
2. Ensure the cover pad is on the unit with the Companion logo at the top left hand corner of the unit which is located in the quadrant for left front foot placement.

**WARNING** – Do not place a pet on the Stance Analyzer without the cover in place.

**NOTICE** – Do not immerse any part of the unit in water. Do not pour water directly on any part of the unit.

### Assembling the Stance Analyzer System

1. Locate the black box that contains the PC board, the cable coming from the front of the Stance pad and the single cable with the USB connector.
2. Plug the male end of the Stance pad cable into the female end of the black box, and tighten both screws.
3. Plug the USB cable into the black box and into the USB port of the Companion Animal Health issued computer.



### Remote Control


A remote control is provided for the Stance Analyzer to capture standing weight bearing data for a patient without having to step away from the patient or the device. Once the patient is standing relatively squarely, with one foot on each pad quadrant, press the button on the remote control to capture a reading at that point in time. You may capture several data points as desired.

**NOTICE** – The REMOTE CONTROL SHOULD BE PLACED IN A SAFE PROTECTED AREA, where it will not be dropped or fall.


## 6. CONDUCTING A STANCE ANALYSIS

### Starting the Stance Analyzer Software

**NOTICE** – Do not connect the computer to the internet or download any external software to the Companion Animal Health issued laptop as it may interfere the function of the Stance Analyzer software. The computer is for Stance Analyzer use only.

1. Charge or plug computer into an outlet to charge if necessary before turning on computer.
2. Open up computer and press the power button (picture) on the keyboard to turn the computer on.
3. Click "Ok" to get to the Desktop.
4. From the Desktop, double click on  icon.
5. Click "Yes".
6. Change to Full Screen mode in order for application to run correctly.

### Entering New Owner/Patient Information — Current Screen

1. Click  tab in top left hand corner of screen.
2. To create a new patient entry, click "Create New" and add owner information.

NOTICE - You must add a minimum of the first and last name of the owner.

3. Click "Add Pet".

NOTICE - You must add a minimum of the first name and species of the pet.

4. Click "Save".
5. Begin a new session by clicking "Open" next to pet being analyzed.
6. Click "OK".
7. Patient record information will be located in the upper left hand corner of the screen.


### Opening Existing Owner/Patient Information – Current Screen

1. Search for patient using one of the data fields.
2. Select the record and click "Open".
3. Patient record information will be located in the upper left hand corner of the screen.

### Stance Analyzer Calibration — Current Screen




1. With no weight on pads, click  in upper right hand corner of screen.

NOTICE - Button will turn green  when ready.

NOTICE - It is highly recommended that the  function is performed prior to each patient session.




### Scale Calibration — Current Screen

1. With no weight on pads, click  in upper right hand corner of the screen
  2. Place a known weight in each quadrant of the Stance pad so that the total weight is a minimum of 20 lb.  
E.g. – Use four, 10 lb. dumbbells with one placed in each quadrant.
  3. Enter the total weight (lb.) of the known weight in the box and click .
- NOTICE - Button will turn green  when ready.

### Data Collection — Current Screen

Walk patient onto Stance Analyzer pad facing the Companion Animal Health logo, place one foot in each quadrant and have patient stand as stable and square as possible before collecting data.


### Percent Weight Distribution

1. On remote press the top left button multiple times or click  on the screen multiple times using the mouse to obtain a desired number of samples with a minimum of 15 clicks recommended.


NOTICE - Averaged data is displayed in the “Avg Captured Samples” box above the data points.

2. Lines of data can be removed by clicking the ‘X’ to the left of the sample line, re-averaging the data.

### Stability/Center of Gravity

1. To start collecting data, with remote press the bottom right button or click  on the screen using the mouse one time.

NOTICE -  bar will be orange.

2. To stop collecting data, with remote press the bottom right button or click  on screen with mouse one time.


NOTICE -  bar will return to blue.

## 7. SAVING DATA

The Stance Analyzer database will save the four numbers from the “Avg Captured Samples” box, the total weight and the date of collection.

### Save Data to Stance Database with Button

1. Click on  button.

NOTICE -  button will be enabled if current samples have been taken and the average data has not been saved.

2. Click “Yes” to save data to the database.

### Save Data to Stance Database with Button


1. Click  button.
2. Choose “Yes” to save data to the database.

### Save Data to PDF – Current or History Screen

NOTICE – The data saved to PDF becomes a screen shot for the Current screen. For the History screen, you will see a screen shot of the graph only with the dates that have been selected.

1. Click on  icon.
2. Select “Cute PDF Writer”.
3. Save to file of your choice.

### Save Data to USB Flash Drive – Current or History Screen

1. Plug in flash drive to USB port of the computer.
2. Click on  icon.
3. Select “Cute PDF Writer”.
4. Save to the external drive for the USB flash drive.

## 8. REVIEWING DATA OF OPEN PATIENT RECORD

### Reviewing Data — History Screen

1. Click on “History” tab to get to the History screen.
  - a. New patient
    - i. Weight Distribution History graph
      1. The four numbers from the “Avg Captured Samples” box and the database will be plotted as the last data point on the graph, for

each limb, by date of collection. Reference symbols in the chart below.



PATIENT'S LEG	LINE COLOR	SYMBOL
Front Left	Light Purple	Square (■)
Front Right	Dark Purple	Star (★)
Back Left	Light Orange	Diamond (◆)
Back Right	Dark Orange	Circle (●)

ii. Visit History section

1. You can view the four numbers plotted, total weight and notes taken for the current session, itemized by date, in the Visit History section to the right of the graph
- b. Existing patient or multiple sessions
  - i. Comparing historical data – Visit History section
    1. Viewing a pre-set number of dates
      - a. Select “Show”.
      - b. Highlight one of the options from the dropdown menu to choose the amount of historical data you would like to reference.
      - c. Click on “Apply” to show those number of points on the Weight Distribution History graph.
    2. Viewing a specific number of dates
      - a. Select “Or select date to compare”.
      - b. Check the boxes to the left of the dates you would like to reference.
      - c. Click on “Apply” to show those number of points on the Weight Distribution History graph.

### Printing Data — Current or History Screen


1. Connect printer directly to Companion Animal Health issued computer via printer cable.

NOTICE – Do not connect printer via WiFi or Bluetooth.

2. Click on  icon.

3. Select the printer connected.
4. Select "OK".

### **Taking Notes – Current or History Screen**

1. Click on  icon and add notes up to 500 characters.

## **9. REVIEWING PAST PATIENT HISTORY DATA**

You have the ability to view the data that has been saved for every patient visit.

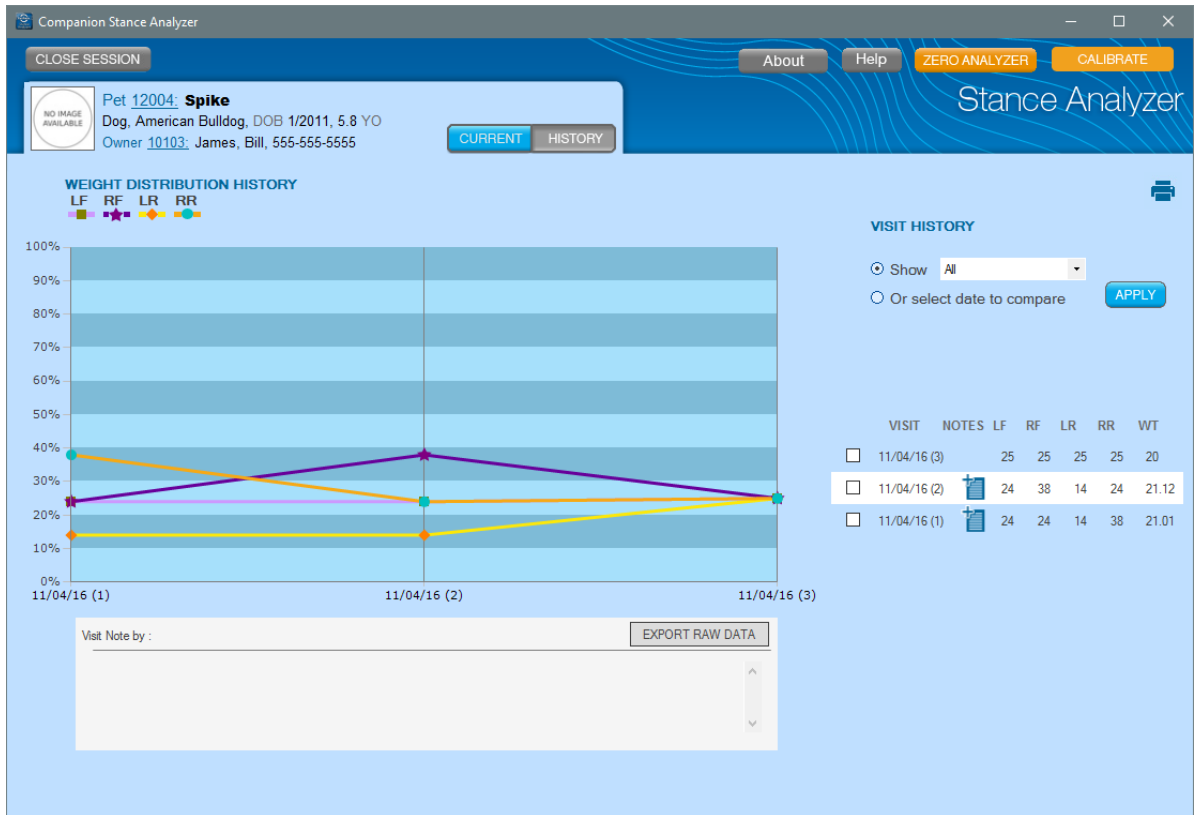
### **Data Saved to Stance Analyzer Database**

NOTICE – You will not be able to view the Weight Distribution History graph from this folder.

1. Navigate to Windows Desktop.
2. Select "CSV Reader".
3. Click "Open" to open saved file.
4. Select the proper file to open saved data.

### **Data Saved to PDF**

1. Navigate to Windows Desktop.
2. Select "Stance Analyzer CutePDF Files".
3. Select the proper file to open saved data.



**Figure 3**

### Exporting Raw Data – History Screen

You have the ability to save the data that has been collected for every patient visit.

NOTICE – The Weight Distribution History graph will not be saved to this information.

1. Click on "Export Raw Data".
2. Name and save data to desired folder and/or file.

NOTICE – If you do not select a folder, the data will be saved to the Desktop.

3. Click on the Windows icon in the bottom left hand corner of the computer screen.
4. Click "Documents" folder.
5. Click folder where data was saved.
6. Select name of saved file to open saved data.  
(See Figure 4)

PetsafeWeightDistributionHistory.csv - Excel

FILE HOME INSERT PAGE LAYOUT FORMULAS DATA REVIEW VIEW TEAM

Clipboard Font Alignment Number Styles Cells Editing

A1 Pet ID

	A	B	C	D	E	F	G	H	I	J	K
1	Pet ID	Pet Name	Visit	Batch	Left Front	Right Front	Left Rear	Right Rear	Weight		
2	12004	Spike	11/4/2016 12:28 PM	3	25	25	25	25	20		
3	12004	Spike	11/4/2016 12:28 PM	2	24	38	14	24	21.12		
4	12004	Spike	11/4/2016 12:27 PM	1	24	24	14	38	21.01		
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PetsafeWeightDistributionHistor

READY 100%

Figure 4

## 10. CLEANING AND MAINTENANCE

### Cleaning Stance Analyzer Pad Cover

1. The pad is water resistant and can be cleaned with a damp cloth and every day standard cleaning supplies.

### Remote Control

1. Replacing battery
  - a. Unscrew the screws on the back of the remote control using a Phillips head screw driver.
  - b. The remote uses a CR 2032 battery. Remove the old battery and replace with the new battery.
  - c. Replace the back of the remote and tighten the screws.
2. Pairing procedure for replacing the remote
  - a. Remove the screws on the bottom of the control box using a Philips head screwdriver.
  - b. Open the control box and locate the programming button on the internal board.
  - c. Hold programming button (in the control Box) for ~1 second.
  - d. Green light will flash.
  - e. Press either remote button twice (separated by ~ 1 second).
  - f. When accepted, the Green light will flash rapidly for ~2 seconds.
  - g. If no codes are recognized within 10 seconds, the Green light will stop flashing and no changes will occur.

### Additional Help

Please click the “Help” tab at the top of the screen for further details.

## 11. WARRANTY

Companion Animal Health ("Company") warrants that the Stance Analyzer ("Product") is free of defects in material and workmanship. This warranty shall remain in effect for one year (12 months) from the date of original consumer purchase. If this Product fails to function during the one year warranty period due to a defect in material or workmanship, company or the selling dealer will repair or replace this Product without charge within a period of thirty (30) days from the date on which the Product is returned to the Company or the dealer. All repairs to the Product must be performed by a service center certified by the Company. Any modifications or repairs performed by unauthorized centers or groups will void this warranty.

***This Warranty Does Not Cover:***

ANY MALFUNCTION OF FAILURE IN THE PRODUCT CAUSED BY PRODUCT MISUSE, BUT NOT LIMITED TO, DROPPING THE UNIT, RECEIVER, OR REMOTE AND FAILURE TO PROVIDE REASONABLE AND NECESSARY MAINTENANCE OR ANY USE THAT IS INCONSISTENT WITH THE PRODUCT USER MANUAL.

Replacement parts or labor furnished by anyone other than the Company, the selling dealer or a certified Company service technician.

Defects or damage caused by labor furnished by anyone other than the Company, the selling dealer or a certified Company service technician.

COMPANY SHALL NOT BE LIABLE IN ANY EVENT FOR INCIDENTAL OR CONSEQUENTIAL DAMAGES.

Some states do not allow the exclusion or limitation of incidental or consequential damages, so the above limitation or exclusion may not apply to you. To Obtain Service From Company or the selling dealer under this warranty:

1. A written claim must be made within the warranty period to the Company or the selling dealer. Written claims made to the Company should be sent to:

Telephone: 302-709-0408 or 877-627-3858

2. The Product must be returned to the Company or the selling dealer by the owner.

This warranty gives you specific legal rights and you may also have other rights, which vary from state to state or location to location.

The Company does not authorize any person or representative to create for it any other obligation or liability in connection with the sale of the Product. Any representation or agreement not contained in the warranty shall be void and of no effect.

THE FOREGOING WARRANTY IS IN LIEU OF ALL OTHER WARRANTIES, EXPRESSED OR IMPLIED, INCLUDING ANY WARRANTY OR MERCHANTABILITY OR FITNESS FOR A PARTICULAR PURPOSE.



## 12. REGULATORY INFORMATION

### **FCC – USA**

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.

**CAUTION:** Modifications or changes to this equipment not expressly approved by LiteCure LLC may void the user's authority to operate the equipment.

**NOTICE:** This equipment has been tested and found to comply with the limits for a Class B digital device, pursuant to part 15 of the FCC Rules. These limits are designed to provide reasonable protection against harmful interference in a residential installation. This equipment generates, uses, and can radiate radio frequency energy and, if not installed and used in accordance with the instructions, may cause harmful interference to radio communications. However, there is no guarantee that interference will not occur in a specific installation. If interference does occur to radio or television reception, which can be determined by turning the equipment off and on, the user is encouraged to try to correct the interference by one or more of the following measures:

- Reorient or relocate the receiving antenna.
- Increase the separation between the equipment and the receiver.
- Connect the equipment to an outlet on a circuit different from that to which the receiver is connected.
- Consult customer care, the dealer, or an experience radio/TV technician for help.

### **IC – CANADA**

This device complies with Industry Canada's licence-exempt RSSs. Operation is subject to the following two conditions: (1) This device may not cause interference, and (2) this device must accept any interference, including interference that may cause undesired operation of the device.

Le présent appareil est conforme aux CNR d'Industrie Canada applicables aux appareils radio exempts de licence. L'exploitation est autorisée aux deux conditions suivantes : (1) l'appareil ne doit pas produire de brouillage, et (2) l'utilisateur de l'appareil doit accepter tout brouillage radioélectrique subi, même si le brouillage est susceptible d'en compromettre le fonctionnement.

## **DECLARATION OF CONFORMITY – EUROPE**

**Manufacturer:**

LiteCure LLC  
250 Corporate Boulevard  
Newark, DE 19702  
United States of America  
Tel: 302.709.0408  
Fax: 302.709.0409

**Authorized European Representative:**

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Molenstraat 15  
2513 BH The Hague  
The Netherlands  
Tel: (31) (0) 70 345-8570  
Fax: (31) (0) 70 346-7299

**Product**

**Name:** Stance Analyzer

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<b>EUT:</b> Stance Analyzer Remote (Transmitter)	PRT000452
Stance Analyzer Control Box (Receiver)	PRT000453

LiteCure LLC hereby declares that the above named Type I equipment conforms to the essential requirements of the European Union Directives 2014/53/EU on Radio Equipment and 2014/30/EU on Electromagnetic Compatibility. The following harmonized standards are those to which the product's conformance has been verified:

- ETSI EN 301 489-1 V1.9.2 (2011-09)
- ETSI EN 301-489-3 V1.6.1 (2013-06)

Per the criteria defined in the following harmonized test standards:

- EN 55022:2010
- EN 61000-4-2:2008
- EN 61000-4-3:2006
- EN 61000-4-4:2004
- EN 61000-4-5:2006
- EN 61000-4-6:2007
- EN 61000-4-11:2004
- ISO 7637-1:2004

This declaration is issued under the sole responsibility of the manufacturer.