

# MotivaImagine

## User Manual

## Table of Contents

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<b>IMPORTANT INFORMATION ABOUT THE “Q INSIDE SAFETY TECHNOLOGY .....</b>	<b>3</b>
Purpose.....	3
Intended Use.....	3
<b>WARNINGS AND CONTRAINDICATIONS.....</b>	<b>3</b>
Warnings .....	3
Contraindications .....	3
<b>GENERAL INFORMATION AND SAFETY INFORMATION.....</b>	<b>3</b>
Battery Information .....	3
Recharging .....	4
<b>BEFORE GETTING STARTED .....</b>	<b>4</b>
Q Inside Reader Testing.....	4
Operation.....	4
Read Patterns.....	5
<b>MAINTENANCE .....</b>	<b>5</b>
Cleaning .....	5
<b>TECHNICAL SPECIFICATIONS .....</b>	<b>5</b>
<b>PHYSICAL AND ELECTRONIC CHARACTERISTICS .....</b>	<b>6</b>
<b>ELECTRICAL AND TECHNICAL CHARACTERISTICS .....</b>	<b>6</b>
<b>ELECTROMAGNETIC COMPATIBILITY AND INTERFERENCE (EMC/EMI) INFORMATION .</b>	<b>6</b>
<b>EXPLANATION OF SYMBOLS.....</b>	<b>7</b>

## IMPORTANT INFORMATION ABOUT THE “Q INSIDE SAFETY TECHNOLOGY

### Purpose

The Q-Inside™ Reader transmits a Radiofrequency burst to interrogate the Q Inside Safety Technology Micro-Transponder, and receive a unique, 15-digit identification code contained within the Micro-Transponder integrated circuit.

When the Micro-Transponder is embedded in an implanted medical device, the 15-digit code can provide secure traceability for a medical device throughout the medical device life cycle.

### Intended Use

The Q-Inside™ Reader is intended to be used as an accessory to the Q Inside Safety Micro-Transponder, with a sole purpose of interrogating, and retrieving a unique 15-digit identification code.

## WARNINGS AND CONTRAINDICATIONS

### Warnings



This equipment radiates radio-frequency energy. If not used in accordance with this instruction manual. Interference to radio communications may occur. Any interference caused within a residential area will be corrected at the user’s expense.



Q-Inside™ Reader should not be used adjacent to or stacked with other equipment. If adjacent or stacked use is necessary, the Q-Inside™ Reader should be observed to verify normal operation in the configuration in which it will be used.

### Contraindications

None

## GENERAL INFORMATION AND SAFETY INFORMATION

### Battery Information

The Q-Inside™ Reader will read all FDX-B (15 digit) micro-transponders, in compliance with ISO 11784 and ISO 11785. Establishment Labs, SA is the distributor of the Q-Inside™ Reader. A USB cable intended for charging the internal, rechargeable battery is supplied with each reader.

## Recharging

Connect the scanner to an available USB port on your computer and leave for three and one-half hours to completely charge the internal battery.



Will appear on the display screen when the battery is low with the message “*Battery Low*”. Will appear on the display screen when the battery is fully charged. To recharge the battery simply, plug the USB cable into the back of the reader and into an available USB port. Note that a fully discharged battery will need to charge for up to three and one-half hours to be fully charged. During the charging cycle, the display will switch off. To see if the battery has finished charging, press the start button and the display screen will inform you it is still “*Charging or Charged*”.

## BEFORE GETTING STARTED

### Q-Inside™ Reader Testing

Prior to reading a patient with an implanted medical device, the Q-Inside™ Reader must first be verified. Functionality verification may be performed by reading the test Micro-Transponder provided within the package.

### Operation

The start button is located inside on the back of the reader. To power the unit on, simply push on the symbol located on the back panel by the words “*press here*” and then release.

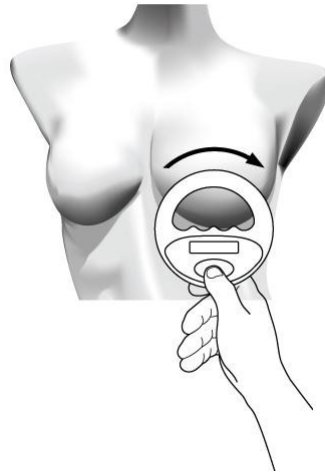
The display will show Q-Inside™ Reader “*Reading*” and the reader will emit a single beep. If no valid Micro-Transponder is found within 20 seconds, the display window will indicate “*No Device Found*” and the reader will again emit a single beep.

If there is no activity within 40 seconds, the reader will automatically switch off.

The outer surface of the Q-Inside™ Reader is the reading area. When a valid Micro-Transponder is found the reader will emit a double beep sound and the complete Micro-Transponder number will be shown on the display screen.

## Read Patterns

Place the reader next to the skin and perpendicular to the area in order to be read the Micro-Transponder. Use the pattern as shown below



When the Micro-Transponder is located, you will hear a beep, followed by a 15-digit numeric sequence shown on the display screen. If no Micro-Transponder is found, try reading again moving slower at different directions and varying the angles of the reader on the area to be read. If no Micro-Transponder is still found, re-test the Q-Inside™ Reader with the test Micro-Transponder provided.

## MAINTENANCE

### Cleaning



The reader should never be submerged in liquid or placed in any sterilization equipment. It can be wiped down with a Steriwipe® or by moistening a cloth with a disinfecting solution.

## TECHNICAL SPECIFICATIONS


This device is in compliance with RoHS and ISO 11784 norms.

Dimensions: 5.315 inches diameter x 1.299 inches depth (135mm diameter x 33mm) Weight: 2.4962 ounces (70 grams)


Reads per charge: 2000

Operating temperature: 32° F to +122° F (0°C to +50°C)

## PHYSICAL AND ELECTRONIC CHARACTERISTICS

 Avoid storing the Q-Inside™ Reader in direct sunlight, excessive moisture or extreme temperatures.

## ELECTRICAL AND TECHNICAL CHARACTERISTICS

 The Q-Inside™ Reader is a Radio Frequency (RF) device and needs special precautions regarding Electro-Magnetic Compatibility (EMC), read these instructions for EMC information before putting the device into service.

Performance can be affected by metal objects and computer equipment. These items can cause a reduced read range for identifying the Micro-Transponder. Operate this unit clear of these devices for optimum performance.




## ELECTROMAGNETIC COMPATIBILITY AND INTERFERENCE (EMC/EMI) INFORMATION

The Q-Inside™ Reader transmits and receives information at a frequency of 131.58 kHz and power level of 10.2 dBuV/m. Care should be taken since the reader could possibly affect and be affected by other Radio Frequency (RF) communications equipment, even if other equipment complies with CISPR 11 emission requirements. If no numeric sequence displays on the reader and interference from other RF equipment is suspected, move the other equipment or move the reader and patient away from the other RF equipment.

The use of the Q-Inside™ Reader in areas with ambient radio frequency (RF) emissions (radio transmitters) such as mobile transit (ambulances or helicopters), MRI or security scanning equipment (i.e. metal detectors, anti-theft and X-ray scanner) could interfere with the readers ability to read the numeric sequence. In such situations where the RF emitters are known to be present, but no numeric sequence is found by the reader, move the patient and reader away from the area with the high RF activity or, if possible, move or turn off the other RF equipment and try again.

Use of the Q-Inside™ Reader near RF transmitters operating in the same frequency range (130 kHz-140 kHz) could possibly cause interference with the reader. However, the software translates the transmitted data through multiple reads of the Micro-Transponder telegram and the describing of this telegram Cyclic Redundancy Check (CRC) would prohibit any unwanted transmissions from being displayed to the user. Therefore, other RF transmitters should cause no unwanted interference to the Q-Inside™ Reader that could potentially harm a patient. In addition, the low radiated emissions of the Q-Inside™ Reader should cause no unwanted interference to other products.

**EXPLANATION OF SYMBOLS**

	The Motivalmagine device contains a radio-frequency transmitter and receiver
	Caution and warning
	Do not expose to extreme heat, cold or open flame