

**RGIS**<sup>®</sup>





**RM2 Handheld  
RM2 BT Imager**

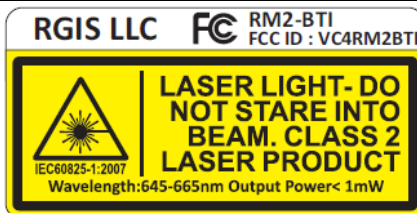
# Getting Started Guide

REV 1.0

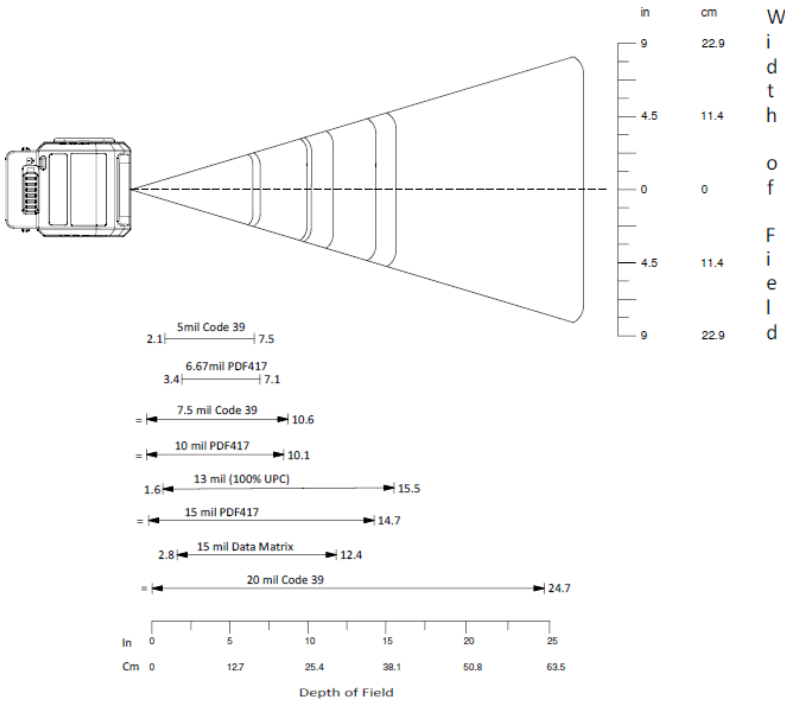
55-341-0001

## Warnings and Precautions

	<p><b>WARNING:</b> The RM2 &amp; RM2-BTI is designed with adequate safeguards to protect users from shock and other hazards when used as specified within this documentation. If users use the device in a manner not specified by this document, the protection provided by the RM2 &amp; RM2-BTI may be impaired. Please read the documentation before using the device.</p>
	<p><b>WARNING:</b> The RM2 &amp; RM2-BTI device is designed to function with the RGIS battery packs only. Handheld pack: 1-66-0002-0002 ; Imager pack: 1-66-0002-0003</p>
	<p><b>WARNING:</b> The battery used in this device may present a risk of fire or chemical burn if mistreated. DO NOT disassemble, heat above 60c, crush or puncture, short circuit external contacts, or dispose in fire or water.</p>
	<p><b>WARNING:</b> LUMIERE LASER-NE PAS REGARDER DANS LE FAISCEAU APPAREIL A LASER DE CLASSE 2</p>
<p>Class 2 Laser Products</p>	<ul style="list-style-type: none"> <li>Complies with 21CFR1040.10 and 1040.11 except for deviations pursuant to Laser notice No. 50 dated June 24, 2007.</li> <li>IEC60825-1:2007</li> <li>Caution: Use of controls, adjustments or performance of procedures other than those specified herein may result in hazardous laser light exposure.</li> <li>Class 2 laser scanners use a low power, visible light diode. As with any very bright light source, such as the sun, the user should avoid staring directly into the light beam. Momentary exposure to a Class 2 laser is not known to be harmful.</li> <li>Complies with FDA standards for laser products except for deviations under Laser Notice 50, dated 6/24/2007.</li> </ul>
<p>Battery Operation</p>	<p>The battery voltage should be in the range 3.3 V to 4.2V when inserted into the device.</p>
<p>User Serviceability</p>	<p>Do not disassemble the RM2 &amp; RM2-BTI device. It contains no user serviceable parts. Please return to the FSC for repair.</p>
<p>Liquids</p>	<p>Avoid spilling liquids on the RM2 &amp; RM2-BTI. Liquids spilled onto the RM2 could short circuit it if liquids are accidentally spilled, let the device dry before use.</p>
<p>Battery Disposal</p>	<p>Battery packs should be disposed in accordance with local regulations. Packs can also be returned to the RGIS FSC for disposal.</p>
<p>Battery Charging</p>	<p>Battery packs should be charged only using the GTS provided battery charger bay, Model no:</p> <ul style="list-style-type: none"> <li>1-28-0080-0001: Battery Charger 2 Bay, 4.2V DC, 100-240 AC Input.</li> <li>1-28-0080-0002: Battery Charger 8 Bay, 4.2V DC, 100-240 AC Input.</li> </ul>



### Field Of View Specification



Laser Aperture

## Overview

This manual shall serve as a familiarization guide for the RM2 and RM2-BTI (Handheld and the BT Imager). The pictures and figures shown are for illustrative purposes only, and the actual device may vary.

## What's in the Box?

Each unit carton will have:

- Two RM2 Handheld  
Model: RM2
- Two RM2 BT Imager  
Model: RM2-BTI
- Two Rechargeable Li-Ion battery packs  
Model no: Handheld pack: 1-66-0002-0002  
Imager pack: 1-66-0002-0003
- Two Hand straps: 91-341-0002
- Getting Started Guide

## Device Operation:

- Insert battery into the device, ensuring the battery pack is latched properly.
- Press the Suspend/Sleep/Resume button on the side of the device. The device will power on and display the RM2 Inventory menu.
- To put the device into Sleep mode, the user should “tap” the Suspend/Sleep/Resume button. The user can return the device into operational mode by tapping the button again.
- A momentary press on the Reset button on the side of the device will cold boot the device.
- Pressing the Suspend/Sleep/Resume button for approximately 5 seconds will shut down the device.
- It is recommended that users put the device in sleep mode by tapping the Suspend/Sleep/Resume button prior to removing the battery pack.

## Getting to know the RM2 & RM2-BTI

### RM2

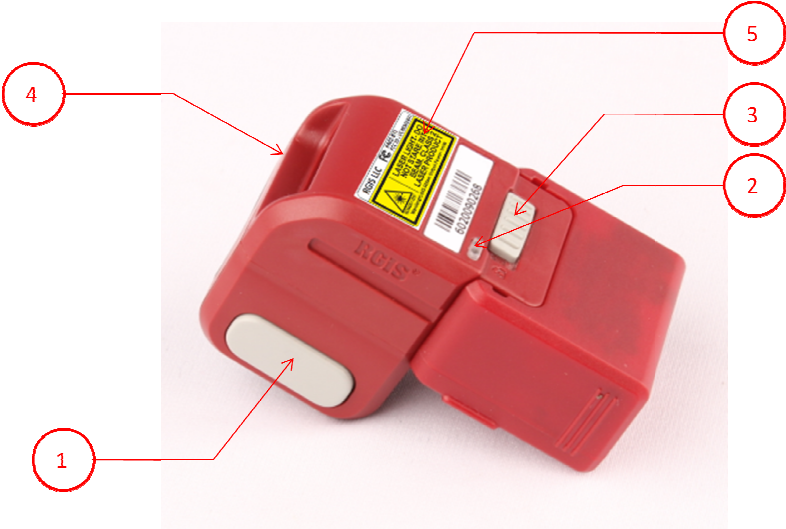


Ref	Part	Function
1	Suspend/Sleep/Resume button	Press once to put the RM2 into suspend/sleep mode; press again to resume previous operation.
2	Reset Button	Press to do a cold boot or hard reset on the RM2.
3	SD Card Slot	Full-size Secure Digital Input/ Output card (SDIO).
4	Left Trigger Switch	Activates scanning when used in the appropriate text box field.
5	Vibra Jack	For use with a Vibra cable necessary for the hearing impaired.
6	Audio Jack	Microphone/speaker headset.
7	Numerical Keys	Alpha-numeric keypad with embedded functionality for data entry.
8	Function Keys	Four programmable function buttons: Decimal, Backspace, ALT, ABC.
9	LCD Display	LCD with resistive touch panel.
10	Speaker	Sound/audio output



Ref	Part	Function
11	Status Light	Indicates different statuses of the RM2.
12	Center (Enter) Key	RGIS application uses this key to control the triggering of the Imager Scan Engine.
13	USB Port	To use with external USB devices.
14	Right Trigger Switch	Activates scanning when used in the appropriate text box field.
15	Custom Serial Port	Use to attach the tethered ring scanners and any other device(s) that needs to communicate with the handheld via a serial interface.
16	Belt Hook	To hook the RM2 when used with a belt.

RM2-BTI



Ref	Part	Function
1	Trigger button	Activates scanning when used in the appropriate text box field.
2	Status LED	Indicates different status of Imager
3	Imager Latch	To properly lock the Imager into RM2 or Imager battery
4	LASER Aperture	LASER source
5	LASER label	LASER explanatory/warning label

## RM2 & RM2-BTI Product Specifications

<b>Model :</b>	RM2
<b>Battery Model:</b>	1-66-0002-0002
<b>Battery rating:</b>	3.7 V,6400 mAH
<b>Operating Ambient temperature:</b>	-20°F to 122°F (-29°C to 50°C)
<b>Storage temperature :</b>	-40° F to 158° F (-40° C to 70° C)
<b>Display:</b>	3.5" LCD (320 x 480 pixels) with resistive touch panel
<b>Keyboard:</b>	15 keys plus 4 'Function' keys
<b>Dimensions:</b>	219 mm x 80 mm x 42 mm
<b>Weight:</b>	540 g with battery

<b>Model :</b>	RM2-BTI
<b>Battery Model:</b>	1-66-0002-0003
<b>Battery rating:</b>	3.7 V,1170 mAH
<b>Operating Ambient temperature:</b>	-20°F to 122°F (-29°C to 50°C)
<b>Storage temperature :</b>	-40° F to 158° F (-40° C to 70° C)
<b>Dimensions:</b>	44.4 mm X 70.7 mm X 42.5 mm
<b>Weight:</b>	75 g with battery



## Operating Modes

The RM2 has been designed with a Bluetooth (BT) Imager to have convenient operating modes for the user. The BT Imager (RM2-BTI) can be used docked as well as undocked to the RM2.

The battery pack is also designed as a combination of two battery packs: the RM2 battery pack and the BT Imager battery pack. When the BT Imager is docked, both the battery packs are stored in the RM2. The Imager battery pack is to be removed from the master pack and inserted into Imager body to power up the Bluetooth Imager while in undocked mode.

The operating modes and configurations are detailed below.

### RM2 with BT Imager Docked

In this mode, BT Imager is docked in the RM2.

1. Insert the imager battery into the master pack and master battery pack into the RM2; ensure the battery pack is latched properly.
2. Insert the RM2-BTI into the docking bay of the RM2.
  - The RM2 will power ON once the master pack is installed and displays the RM2 home menu.
  - Scanning can be done either by pressing any scan button on the handheld or by pressing the trigger button on the Imager when used in the appropriate text box field.

### RM2 with BT Imager Detached

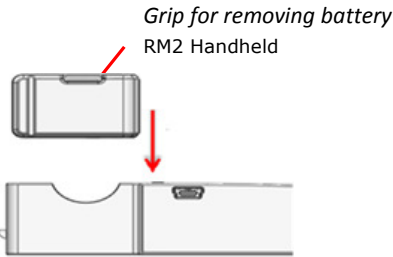
1. Remove the Imager battery from the master pack.
2. Attach the Imager battery into the RM2-BTI; ensure the Imager battery is latched properly; LED will be illuminated green to indicate the imager is powered ON.
3. The BT in the RM2 will automatically turn ON as soon as the RM2-BTI is undocked.
4. The RM2 will power ON once the master pack is installed and displays the RM2 home menu.
5. Pair the Imager.
  - Scanning can be done by pressing the trigger button on the Imager when used in the appropriate text box field.

# Installing the Batteries

## Imager Battery Installation & Removal

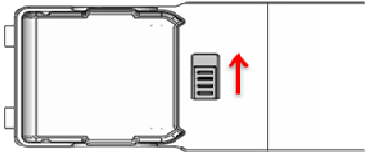
### Installation

1. Slide the imager battery into the master pack until the latch engages.

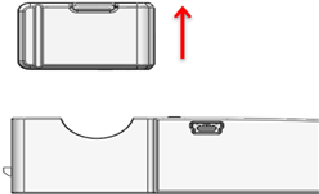


### Removal

1. The latch is disengaged by sliding upward.



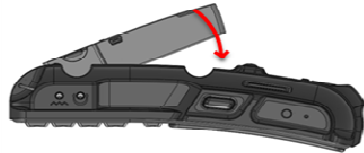
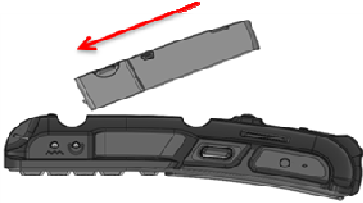
2. Remove the imager battery from the master pack.



## Master Battery Pack Installation & Removal

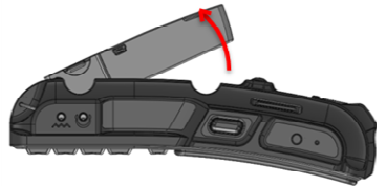
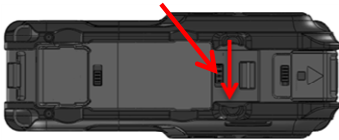
### Installation

1. Slide one end of the battery into the battery bay as shown.
2. Ensure that the battery is properly located in the battery bay and then push it downward until secure.

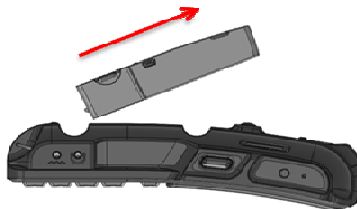


### Removal

1. Slide the latch in the direction shown below to release the battery.
2. Remove the master pack from the battery bay in an upward motion.



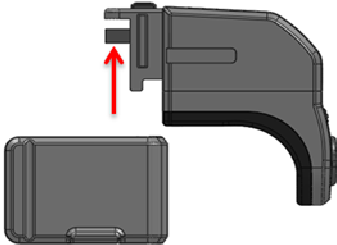
3. Remove the master pack from the battery bay by lifting at an angle.



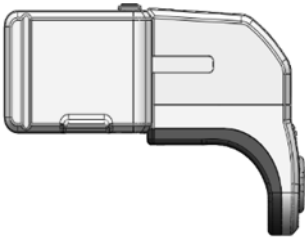
## Imager Battery Pack Installation & Removal into BT Imager

### Installation

1. Slide the Imager battery onto the RM2-BTI in a straight and upward motion as shown. Slide the latch to the lock position.

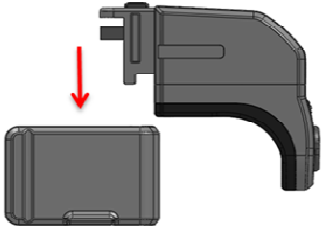
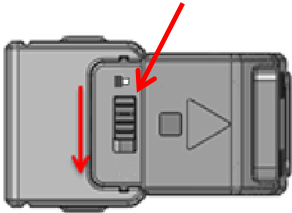


*Imager battery properly attached.*



### Removal

1. Slide the latch in the direction shown below to release the Imager battery.
2. Slide the Imager battery down from the Imager in a straight and downward motion as shown, to remove the Imager battery.

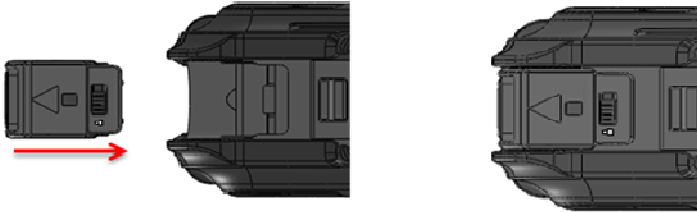


## Bluetooth Imager Docking & Undocking

### Docking

1. Slide the RM2-BTI into the RM2 docking bay in the direction shown. Slide the latch to the lock position.

*Bluetooth Imager is properly docked.*



### Undocking

1. Slide the latch in the direction shown below to release the RM2-BTI.
2. Remove the RM2-BTI in the direction shown below to undock.



## Imager Trigger Rotation

Imager is designed in such a way that, the trigger button can be rotated either to the left hand side or to the right hand side of the Imager, for convenient user operation.

*Note: The Imager battery pack is to be removed before rotating the trigger button assembly.*



**For Right handed operator**



**For Left handed operator**

## Installing the Micro SD Card

1. Remove the master battery pack and then unscrew the cover using the Torx (T5) screw driver.
2. Insert the MicroSD card into the slot as in figure below, close the cover by tightening the screw.



## Repair Instructions

If RM2 & RM2-BTI is malfunctioning or technical issues arise, contact the RGIS FSC. Do not disassemble the RM2 without contacting the RGIS FSC.

RGIS, LLC  
 Attn: Repair Dept.  
 2000 E. Taylor Rd.  
 Auburn Hills, MI 48326  
 1-800-521-3102  
[www.rgis.com](http://www.rgis.com)

**Safety:** For safety information related to the battery charger terminal, see the information included with it.

**Product Support:** For Technical Support or for help not available in this manual, contact the RGIS Service Depot @ 1-800-874-4841.

**FCC Notice (United States):**

Contains Transmitter Module FCC ID: N6C-SDMAN

**FCC CAUTION**

Changes or modifications not expressly approved by the party responsible for compliance could void the user's authority to operate the equipment.

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 particular installation. If this equipment does cause harmful interference 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 receiver.
- Connect the equipment into an outlet on a circuit different from that to which the receiver is connected.
- Consult the dealer or an experienced radio/TV technician for help.

**FCC Notice (Canada):**

This device complies with part 15 of FCC Rules and Industry Canada's licence-exempt RSSs. 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.

Le présent appareil est conforme à la partie 15 des règles de la FCC et aux normes des 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'appareil doit accepter tout brouillage subi, même si le brouillage est susceptible d'en compromettre le fonctionnement.

The available scientific evidence does not show that any health problems are associated with using low power wireless devices. There is no proof, however, that these low power wireless devices are absolutely safe. Low power Wireless devices emit low levels of radio frequency energy (RF) in the microwave range while being used. Whereas high levels of RF can produce health effects (by heating tissue), exposure of low-level RF that does not produce heating effects causes no known adverse health effects. Many studies of low-level RF exposures have

not found any biological effects. Some studies have suggested that some biological effects might occur, but such findings have not been confirmed by additional research.

RM2 and RM2-BTI has been tested and found to comply with FCC/IC radiation exposure limits set forth for an uncontrolled environment and meets the FCC radio frequency (RF) Exposure Guidelines and RSS-102 of the IC radio frequency (RF) Exposure rules.

Les connaissances scientifiques dont nous disposons n'ont mis en évidence aucun problème de santé associé à l'usage des appareils sans fil à faible puissance. Nous ne sommes cependant pas en mesure de prouver que ces appareils sans fil à faible puissance sont entièrement sans danger. Les appareils sans fil à faible puissance émettent une énergie fréquence radioélectrique (RF) très faible dans le spectre des micro-ondes lorsqu'ils sont utilisés. Alors qu'une dose élevée de RF peut avoir des effets sur la santé (en chauffant les tissus), l'exposition à de faibles RF qui ne produisent pas de chaleur n'a pas de mauvais effets connus sur la santé. De nombreuses études ont été menées sur les expositions aux RF faibles et n'ont découvert aucun effet biologique. Certaines études ont suggéré qu'il pouvait y avoir certains effets biologiques, mais ces résultats n'ont pas été confirmés par des recherches supplémentaires. [製品名 (モデル名)] a été testé et jugé conforme aux limites d'exposition aux rayonnements énoncées pour un environnement non contrôlé et respecte les règles des radioélectriques (RF) de la FCC lignes directrices d'exposition et d'exposition aux fréquences radioélectriques (RF) CNR-102 de l'IC.

**CE Notice (European Notice):** The Conformance European symbol found on this product indicates compliance to the EMC Directive and the Low Voltage Directive of the European Union. This means that the product meets the following technical standards: EN 55022(CISPR22), EN 55024(CISPR24)(IEC 61000 4-2,4-3,4-5,4-6,4-8,4-11), EN 61000 3-2(IEC 61000 3-2),EN 61000 3-3(IEC 61000 3-3),EN60950(IEC 60950 3<sup>rd</sup> Ed;1999;2000).

**Battery Notice:** The sealed batteries that work with this product comply with all applicable shipping regulations as prescribed by industry and legal standards.

**Commercial Use Notice:** The RM2 & RM2-BTI is for commercial, work-related use by RGIS employees for inventory, merchandising, mapping or other data collection purposes only. The device is not intended for sale.

### **Radio Frequency (RF) Notice:**

This transmitter must not be co-located or operated in conjunction with any other antenna or transmitter.

This equipment complies with FCC radiation exposure limits set forth for an uncontrolled environment and meets the FCC radio frequency (RF) Exposure Guidelines. This equipment should be installed and operated keeping the radiator at least 20cm or more away from person's body.

Units intended for use in the United States are set for use on channels 1-11. The user has no access to modify these settings and should in no way try to alter the radio settings. Changes or modifications not expressly approved by RGIS could void the user's authorization to operate the equipment.