



Handheld RFID Installation Instructions

Introduction

This document outlines the steps to install the ProMag Handheld RFID [device] on Covaris laptops running SonoLab 10.0.1 (R230) or SonoLab 10.2.1 (220 Instruments). To successfully use the 8 AFA-TUBE® TPX Strip ([PN 520292](#)) Consumable, installation of this device is required on a Covaris laptop.

NOTE: Covaris is not responsible for updates made to this third-party item. Please refer to the vendor for any changes regarding the ProMag Handheld RFID Reader.

NOTE: IMPORTANT An internet connection is REQUIRED for correct installation of device drivers. Installation will remain in the first state (see **Figure 3**) until internet connection is established.

Procedure

1. Ordering the ProMag Handheld RFID Reader and Supported Devices

The ProMag Handheld RFID Reader is sold by GAO and can be ordered through the following link: <https://gaorfid.com/product/reader-smart-label-passive-handheld-hf-13-56-mhz-rfid>.

The RFID Reader should include two USB cables. Please ensure that these cables are included when ordering this device:

1. **WAS-T0153 USB Cable** to connect to a power source
2. **WAS-T0804 USB Cable** to connect to the Covaris laptop

The purchase price of this setup is \$320, shipping not included.

To establish a seamless connection, the purchase of a standard USB-to-Serial Adapter is required.

Additionally, a 3.0 USB hub is recommended to ensure availability of one of the two USB ports on the Covaris laptop for other uses.

Both the standard USB-to-Serial Adapter and the 3.0 USB hub are available for purchase from several online vendors.

2. Connecting the RFID Reader to the Covaris Laptop

- a. Connect one side of the WAS-T0153 Power Cable to the serial jack on the WAS-T0804 Data Cable and connect the other side to the USB hub.



Figure 1. Open serial jack for power connection.



Figure 2. Serial jack connected to power cord.

- b. Connect WAS-T0804 Data Cable to standard USB-to-Serial Adapter.
- c. Connect USB-to-Serial Adapter to USB hub.
- d. Make sure the laptop has an active internet connection, to allow the handheld device driver to download and install. The internet connection is only necessary for this setup step.
- e. On the laptop, open the **Device Manager**, and plug the USB hub into any available USB port.
 - i. Power Connection has been established once musical notes are heard.
 - ii. The UC232R device will be listed under the **Other Devices** dropdown and will remain in this state while the device driver is downloading.

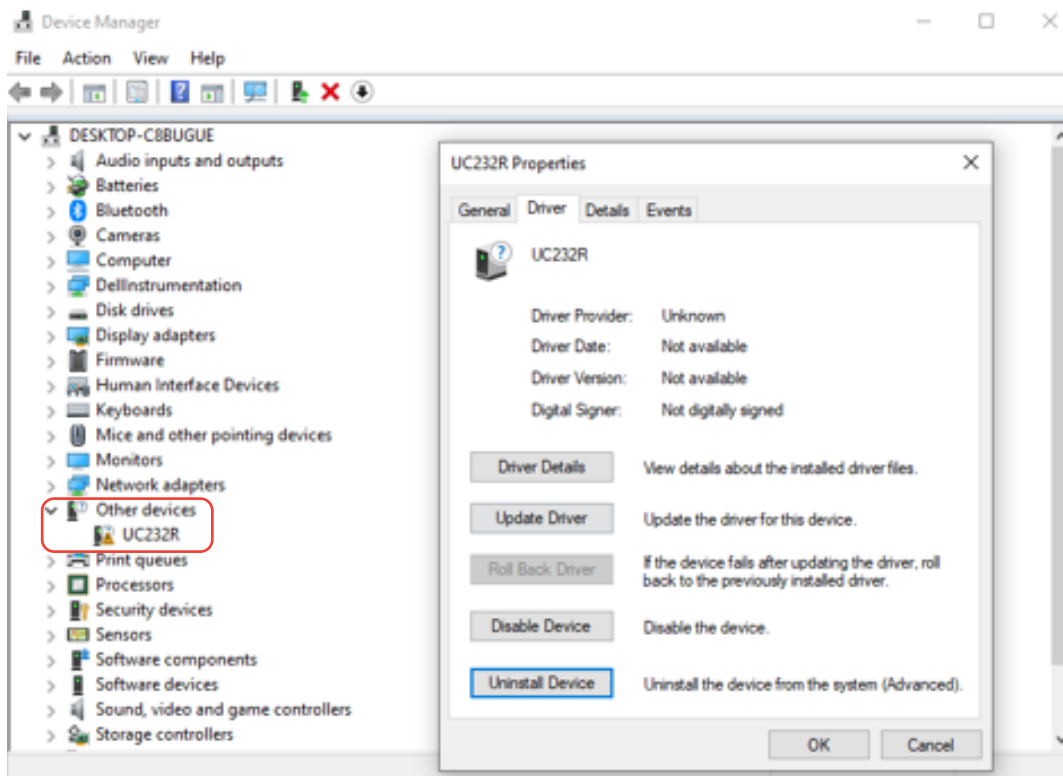


Figure 3. Device Manager list before installation.

iii. After installation, the **Other Devices** dropdown will be replaced by a **Ports\USB Serial Port** dropdown.

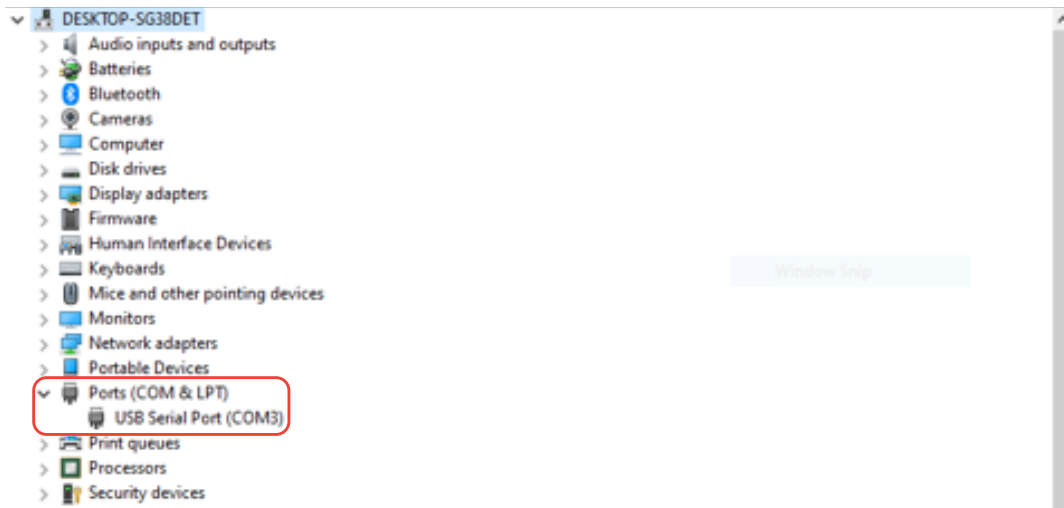


Figure 4. Device Manager list after installation.

iv. The following items should be completed before running a test scan:

- The WAS-T0804 Data Cable cord (1) is connected to both the ProMag Handheld RFID Reader (2) and the serial jack end of the USB-to-Serial Adapter (3)
- The WAS-T0153 Power Cable (4) is plugged into the WAS-T0804 Data Cable serial jack (1) and the USB hub (5)
- A standard USB-to-Serial Adapter (3) is connected to the WAS-T0804 Data Cable serial jack (1) and the USB hub (5)
- The USB hub (5) is plugged into the Covaris laptop (6)

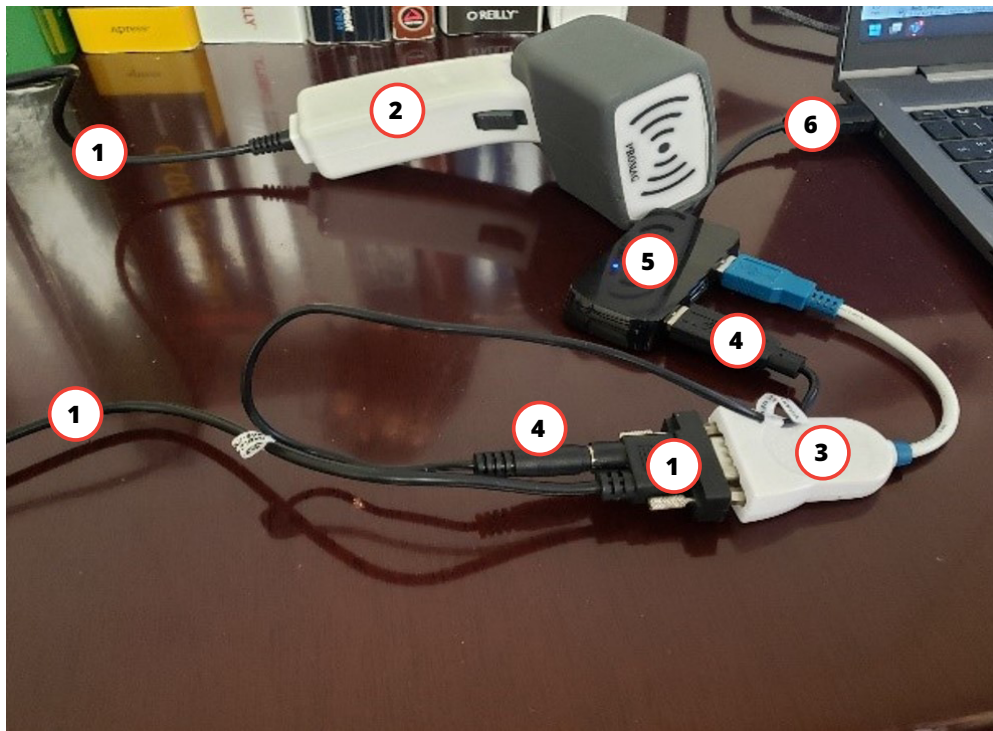


Figure 5. Final setup.

Verifying RFID Scanner is in Working Order

- a. Start SonoLab.
- b. Click the **"Log In"** button located in the upper right-hand corner of the screen.
- c. When prompted, enter the case sensitive username (**Administrator**) and password (**admin**).
- d. Click on the **"ADMIN"** tab then the **"GENERAL"** tab.
- e. Enable **"Handheld RFID"** by toggling the switch to the **"On"** position.

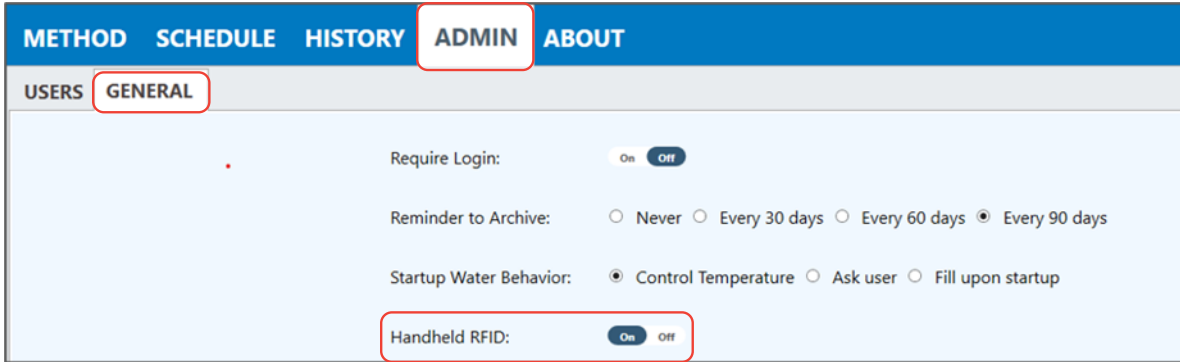


Figure 6. SonoLab screen.

- f. Identify and select the appropriate Plate Definition File for 8 AFA-TUBE TPX Strips.
- g. Create a placeholder method to test connectivity of RFID Handheld Reader.
- h. The **"Scan Plate"** switch under the **"Method Options"** tab should be in the **"On"** position. This will prompt the green **"RUN"** button to change into a yellow **"Scan RFIDs"** button.

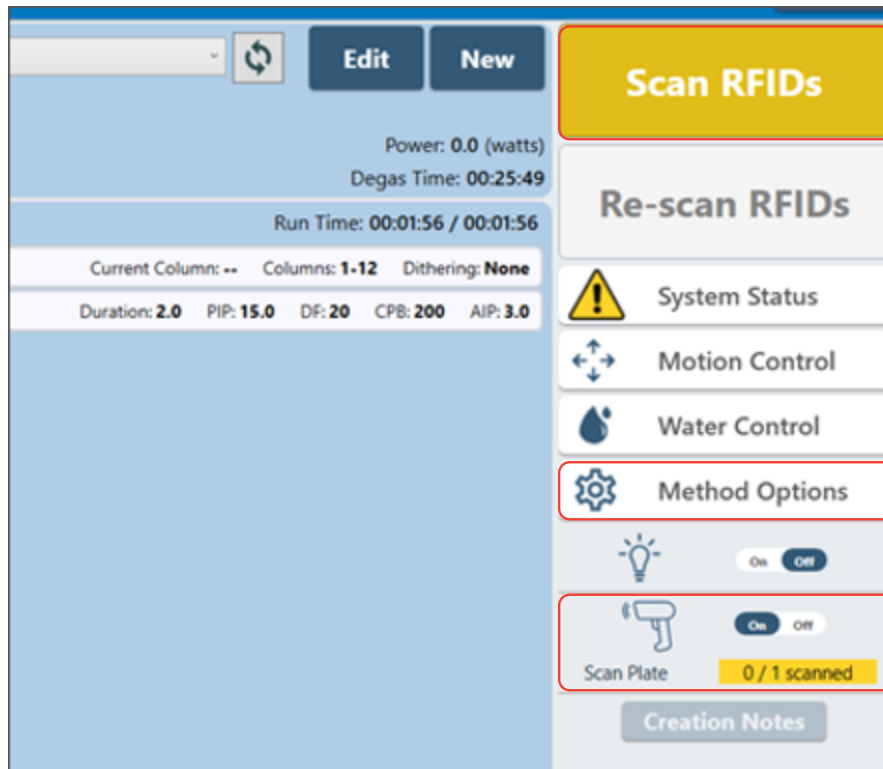


Figure 7. Method run screen.

- i. To scan a valid TPX Strip RFID label:
- Click on the **"Scan RFIDs"** button.
 - Position the labelled side of the TPX Strip a few millimeters above the center dot located on the face of the RFID reader.



Figure 8. Scanning position.

- The reader will beep, indicating a successful test scan of the RFID label.
- Cancel out of the scanning box and delete the test method.

Support and Technical Assistance

Tech Support: Ongoing assistance with the operation or application of the equipment and/or troubleshooting is provided via:

- **Telephone:**
 - US & APAC: +1 781.932.3959, during the hours of 8:30 a.m. to 5:00 p.m. (EST), Monday through Friday
 - EU: +44 (0)845 872 0100, during the hours of 9:00 a.m. to 5:00 p.m. (GMT), Monday through Friday
- **E-mail:**
 - US Customer Service: customerservice@covaris.com
 - EU/UK Customer Service: emeacustomerservice@covaris.com
 - APAC Customer Service: APACcustomerservice.com
 - Service and Instrumentation: techsupport@covaris.com
 - Solutions: applicationsupport@covaris.com

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