

June 22, 2022

RE: Recommended software update download for Thermo Scientific™ 1064Defender Raman Chemical Analyzer

The purpose of this communication is to guide users on how to install the latest software update for the 1064Defender.

Installation Procedure

NOTE: Installation of the software update will take ~30 minutes. Ensure the device is operating on AC power during the installation process.

Updating 1064Defender SW to V1.2.0, and installing the new the TF_Functional library to V1.4.0, is a four-step process.

Step 1: Add update files to a flash drive

- a. Download files from the LeapFile FTP site onto a PC.
- b. Insert a USB flash drive into the PC.
- c. Remove any existing .sfs formatted 1064Defender software installation package files from the flash drive.
NOTE: A typical installation file looks like 1064Defender-ENU-1.2.0-xxxx.sfs
- d. Copy the installation package file, for example, 1064Defender-ENU-1.2.0-2280.sfs, into the root folder, for example, E:\ of the flash drive.
- e. Create a folder named “install” at the root of the flash drive, for example, E:\install.
- f. Copy the .library files, for example, library-narcotics-2.0.1.5.library, to the “install” folder.
- g. Remove the flash drive from the PC.

Step 2: Update software to V1.2.0

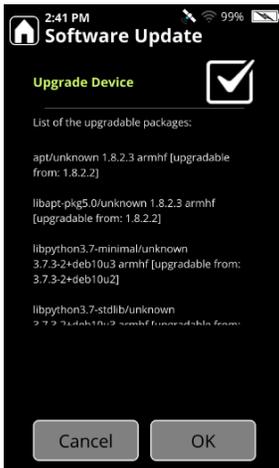
NOTE: Ensure 1064Defender is plugged into AC power.

- a. Login to the 1064Defender device as an Administrator.
- b. Insert the flash drive into the device.

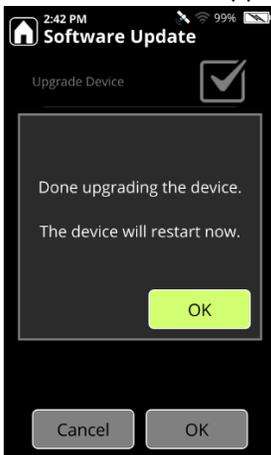
- c. After a few seconds, the prompt below will appear. Select **OK**.



- d. The screen below will appear, click **OK**.

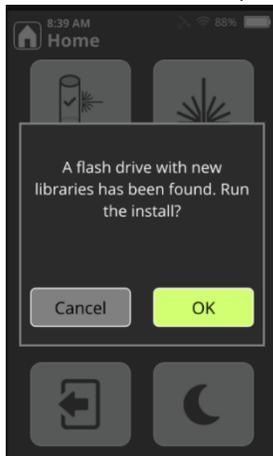


- e. **The SW update process will take ~30 minutes to complete.** When the process is complete, the screen below will appear, and the device will restart (**NOTE:** the flash drive will need to be ejected).

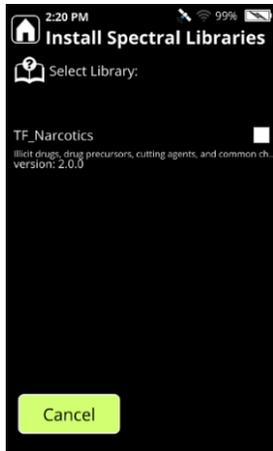


Step 3: Update the TF_Functional library to V1.4.0

- a. Login to the 1064Defender device as an Administrator.
- b. Insert the flash drive.
- c. After a few seconds, the prompt below will appear. Select Install Libraries and press **OK**.



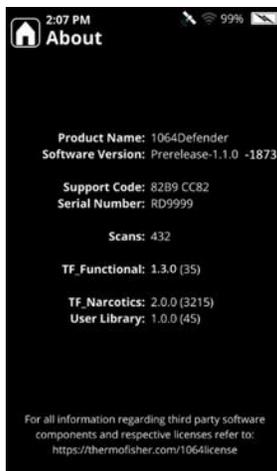
- d. The screen below will appear. Select TF_Functional and press **Install**.



- e. **The TF_Functional update process will take ~2 minutes to complete.** When complete, the screen below will appear.



- f. To validate the update has been successful, access the About page from the home screen. The software version should display as "1.2.0-xxx". The TF_Functional version should display as 1.4.0 (xx).



- g. Eject the flash drive using the button at the top of the GUI screen.

Step 4: Install HazMat library V1.0.2 (Optional)

Library updates are available through Customer Support:

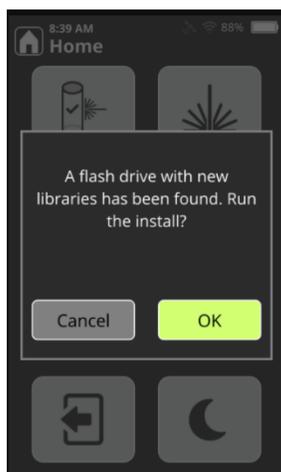
1.800.374.1992 (US toll free)

+1.978.642.1100 (International)

Email: support@chemid.thermofisher.com.

Please have instrument serial number available when contacting Customer Support.

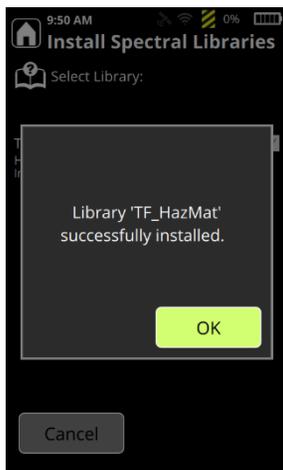
- a. Copy the library-hazmat-1.0.1.57.library file and the entitlement key file (for example: RDXXXX_2021-10-06 .key) to the “install” folder that was created in step 1.
- b. Remove the flash drive from the PC.
- c. Login to the 1064Defender device as an Administrator.
- d. Insert the flash drive.
- e. After a few seconds, the prompt below will appear. Select Install Libraries and press **OK**.



- f. The screen below will appear. Select TF_HazMat and press **Install**.



- g. When the installation is complete, the screen below will appear.



- h. To validate the update has been successful, access the About page from the home screen.

