Operating Instructions

BenchSmart 96

Terminal Software Upgrade Instructions

Note: These instructions mention both firmware and software. Firmware runs the BenchSmart unit itself. Software runs the tablet touchscreen, officially called the Terminal.

This software upgrade improves BenchSmart performance. It requires firmware version 1.0.3 to be installed. If your BenchSmart unit's firmware is below version 1.0.3, make that upgrade first, then upgrade the software.

In brief, here's what to expect. You will:

• Turn on BenchSmart and tablet
• Check the current software (and firmware) version
• Run and verify the terminal software upgrade
• Return to normal operation

If you have questions or encounter any problems, contact Rainin Technical Support at **tech.support@rainin.com** or +1 800 472 4646.

Rainin BenchSmart 96

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I. Checking the Current Firmware Version

Note: If you already received a "firmware upgrade required" message when attempting to upgrade software for the tablet, skip to the next section: II. Installing the Firmware Upgrade.
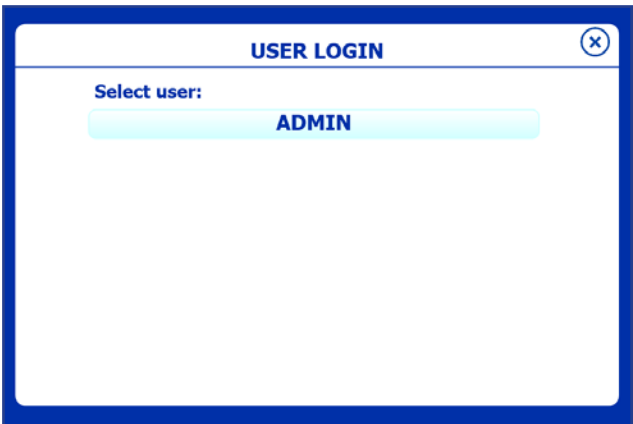
1. Make sure the tablet is connected to BenchSmart 96.

2. Turn on BenchSmart 96 using the on/off switch at the back of the unit.

3. Turn on the tablet using the smaller button along the top. You should see the following screen. (If the screen is unresponsive, check the cable connection.)
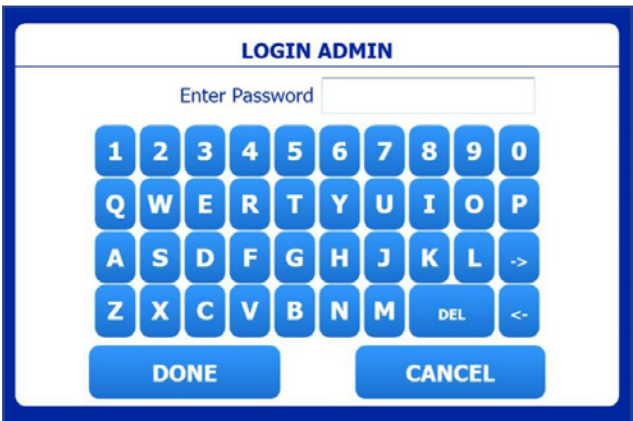

4. After an interval for startup, you will see the USER LOGIN screen. Under Select user: you'll see ADMIN.
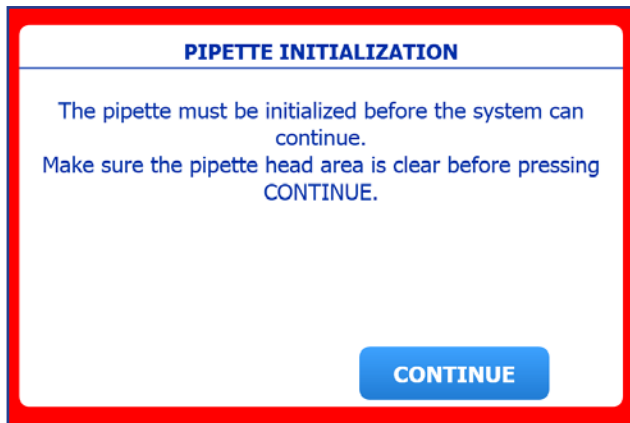
   • ADMIN is the default first user of BenchSmart 96.
   • ADMIN does not initially have a password.
     A password can be set.

   Tap ADMIN

If the LOGIN ADMIN screen appears, a password was set for your ADMIN. Enter the password and press DONE. If a past ADMIN set a password and never cleared it, contact Rainin service at tech.support@rainin.com.
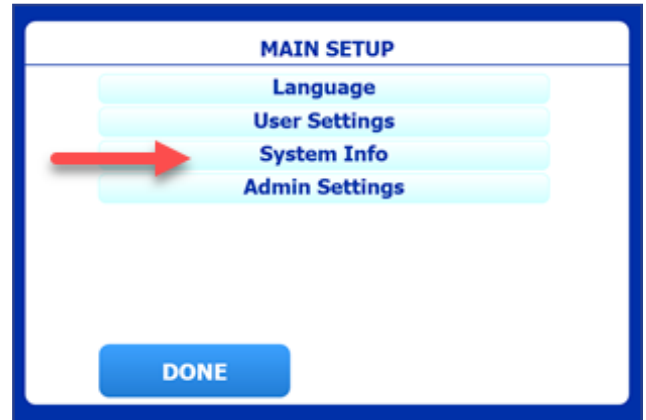
5. The PIPETTE INITIALIZATION screen appears. Make sure the pipette head area is clear, then tap CONTINUE.

6. After BenchSmart initializes, the MAIN screen will appear. Tap the gear icon in the upper right.

7. Under MAIN SETUP, tap System Info.

8. SYSTEM INFO displays the version number of the firmware and terminal software currently installed.

Important:
   If "Firmware Version" (first list item) is lower than 1.0.3.1958, upgrade the firmware first before upgrading the terminal (tablet) software.
   Visit www.mt.com/BenchSmart96, Documentation tab – Software for the firmware file and instructions.

   If "Terminal Version" (tablet software) is a lower number than the current release (listed in the same place: www.mt.com/BenchSmart96, Documentation tab – Software), proceed to II. Installing the Terminal Software.

   Press DONE to return to MAIN SETUP.
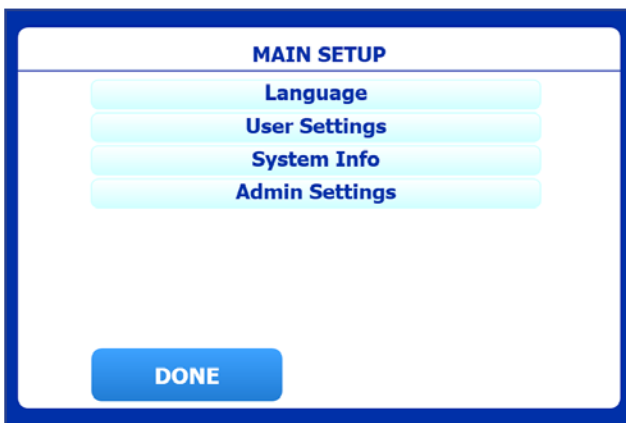
II. Installing the Terminal Software

Note: A USB thumb drive (a.k.a. flash drive or memory stick) is required to transfer this firmware upgrade to BenchSmart 96 via the USB port on BenchSmart's tablet.

1. To obtain a compressed .zip file of BenchSmart Software Version 1.0.4:
   - Download the .zip file at www.mt.com/BenchSmart-software
   - Request a copy from Rainin Technical Support at tech.support@rainin.com.

2. On your computer, extract (un-zip) the file: **RaininBST96TerminalSetup_1.0.4.1968.exe**

3. Insert a USB drive (flash drive, memory stick) into a USB port on your computer, and save the extracted file RaininBST96TerminalSetup_1.0.4.1968.exe to the top level (not a folder or subfolder) of the USB drive.
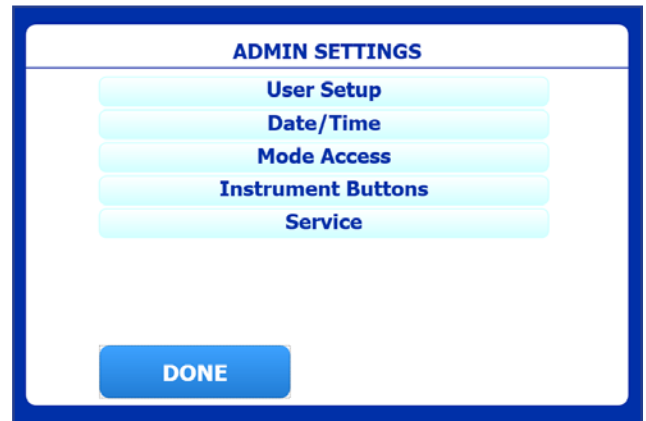

To install the new version file:

1. Go to the MAIN screen and tap the gear icon in the upper right of the touchscreen.

2. In the MAIN SETUP window tap ADMIN Settings
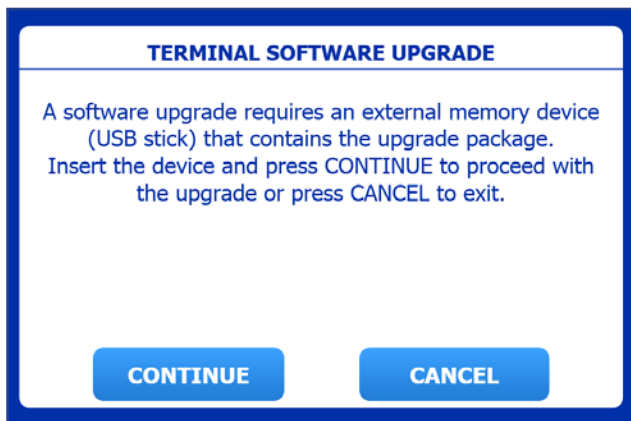
3. Tap **Service**
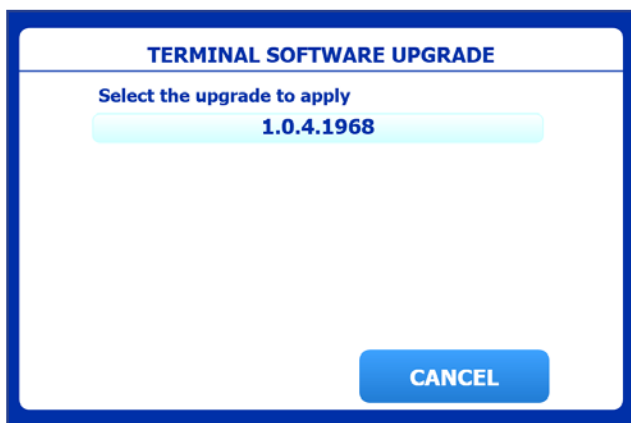

4. Tap **Upgrade Terminal Software**

5. On the right side of the touchscreen, open the cover that
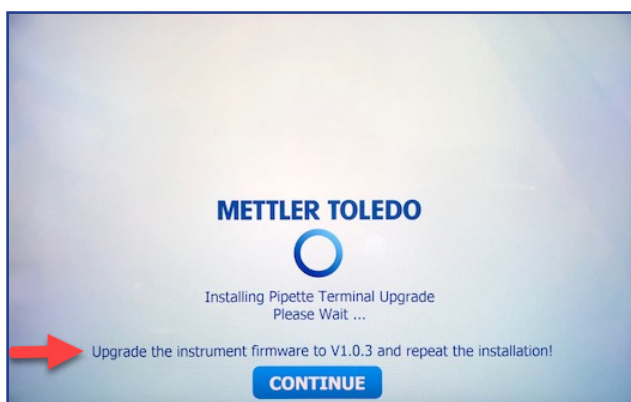protects the USB port, and insert the USB drive into the port.

6. On the TERMINAL SOFTWARE UPGRADE tablet screen, press "CONTINUE"

7. Tap the upgrade number. Installation then starts automatically.
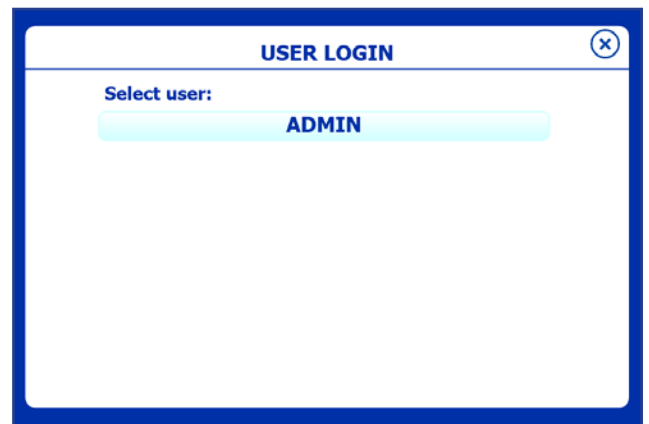

8. If the instrument firmware is too old, the following screen will indicate this. Pressing CONTINUE restarts the non-updated software on the tablet touchscreen so you can perform the instrument firmware upgrade on BenchSmart first.

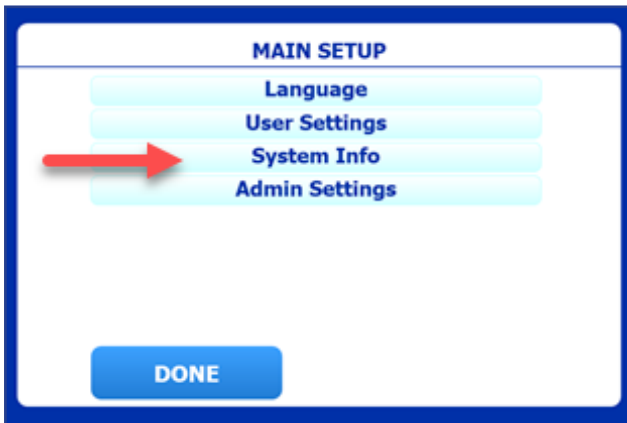9. When the upgrade is complete, tap CONTINUE.

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Installing Pipette Terminal Upgrade
Please Wait ...

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Installing Pipette Terminal Upgrade
Please Wait ...

Upgrade Complete

CONTINUE

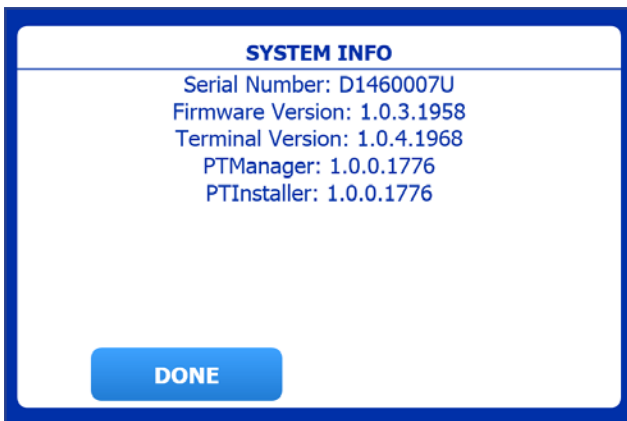10. Tap ADMIN

USER LOGIN

Select user:

ADMIN

11. Tap the gear icon in the upper right corner of the touchscreen.

12. To verify that the Firmware has been updated to the latest version, tap System Info.

13. Ensure that Terminal Version 1.0.4.1968 is listed. Then tap DONE.

The BenchSmart 96 is ready for operation.

Notes

www.mt.com/rainin
For more information