RAININ
Pipetting 360°

BenchSmart 96
Firmware Upgrade Instructions

Firmware version 1.0.3 improves BenchSmart 96 performance and enables future software upgrades.

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

- Turn on BenchSmart and tablet
- Check the current firmware version
- Run and verify the firmware 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

METTLER TOLEDO

Operator Instructions

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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.
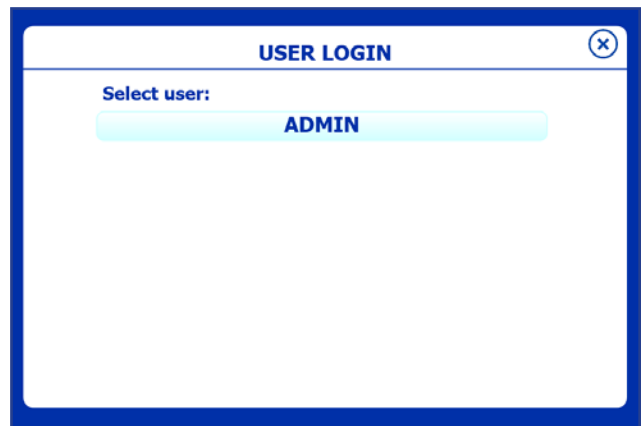
1. Make sure the tablet is connected to BenchSmart 96.

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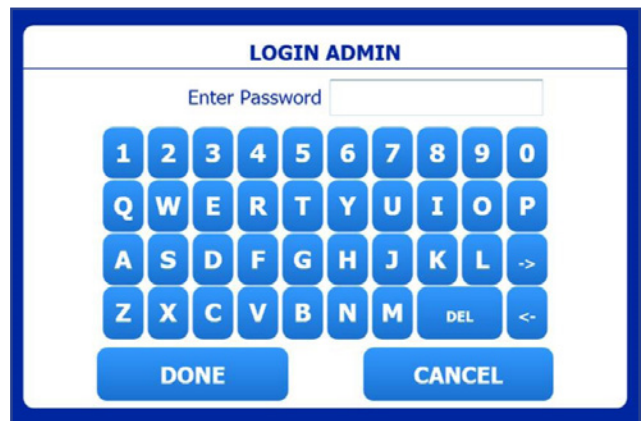
4. After an interval for startup, you will see the USER LOGIN screen. Under Select user: you'll see ADMIN.
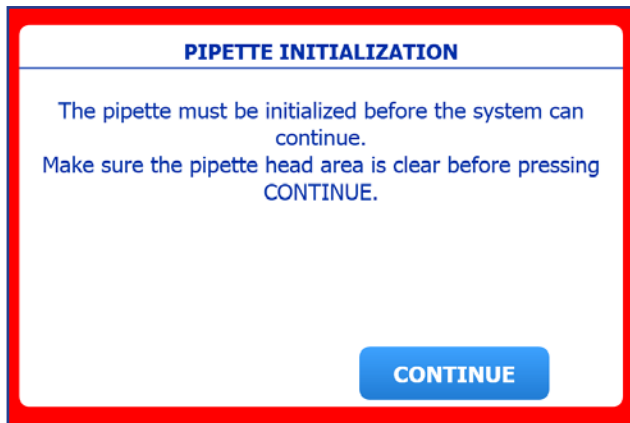
   • ADMIN is the default first user of BenchSmart 96.
   • ADMIN does not initially have a password.
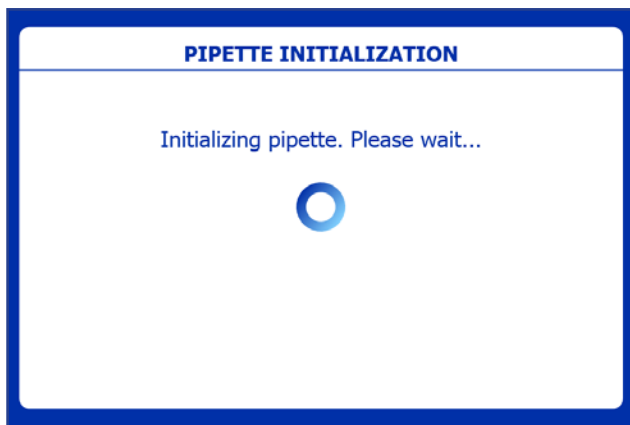   A password can be set.

   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.
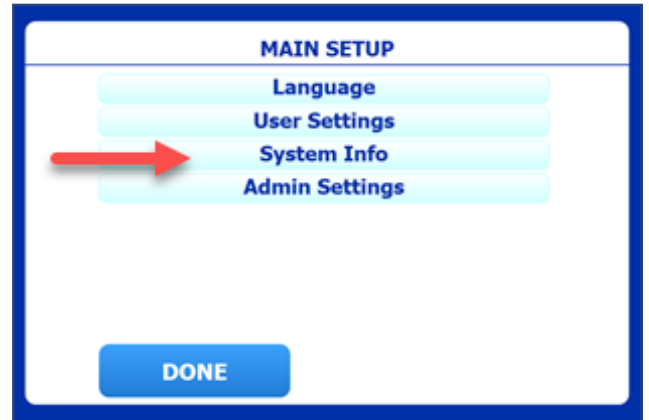
5. The PIPETTE INITIALIZATION screen appears. Make sure the pipette head area is clear, then tap CONTINUE.

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 installed. If this number does not match the current release (visit www.mt.com/BenchSmart96 to see the latest release), proceed to II. Firmware Upgrade.

Press DONE to return to MAIN SETUP.
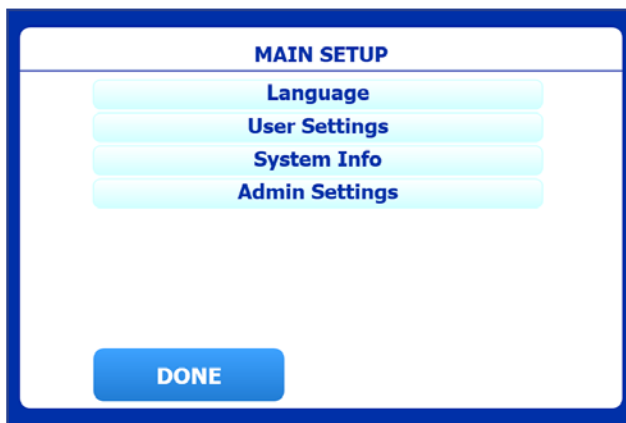
II. Installing the Firmware

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 Firmware Version 1.0.3:
   - Download the .zip file at www.mt.com/BenchSmart-firmware
   - Request a copy from Rainin Technical Support at tech.support@rainin.com.

2. On your computer, extract (un-zip) the file: **RaininBST96UpgradeSetup_1.0.3.1958.exe**

3. Insert a USB drive (flash drive, memory stick) into a USB port on your computer, and save the extracted file RaininBST96UpgradeSetup_1.0.3.1958.exe to the top level (not a folder or subfolder) of the USB drive.
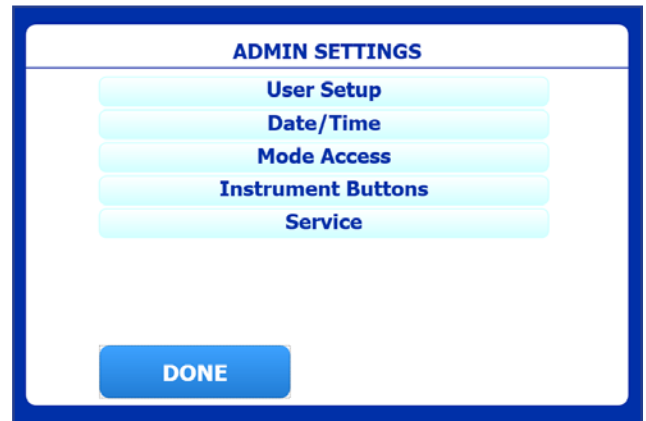

To install the new version file:

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

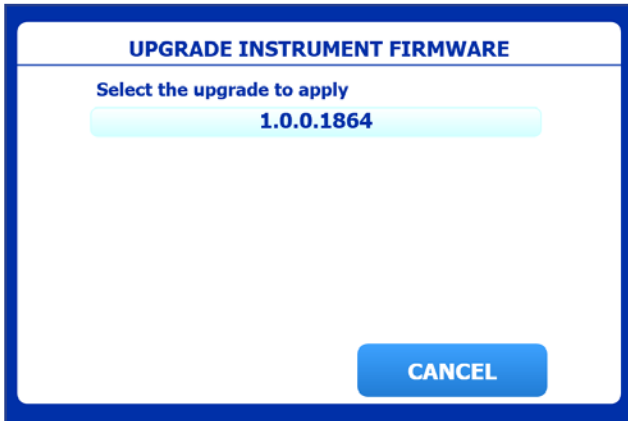4. Tap Upgrade Instrument Firmware

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 UPGRADE INSTRUMENT FIRMWARE tablet screen, press "CONTINUE"

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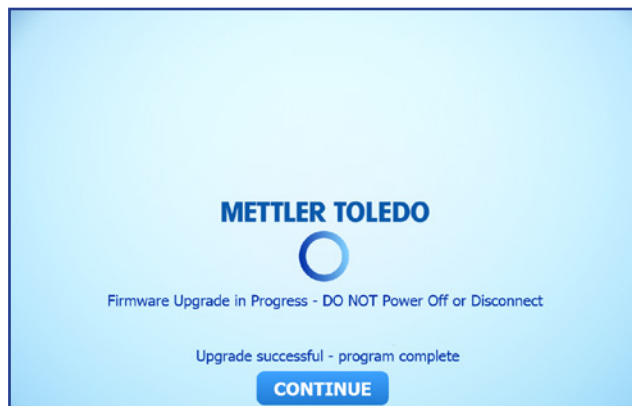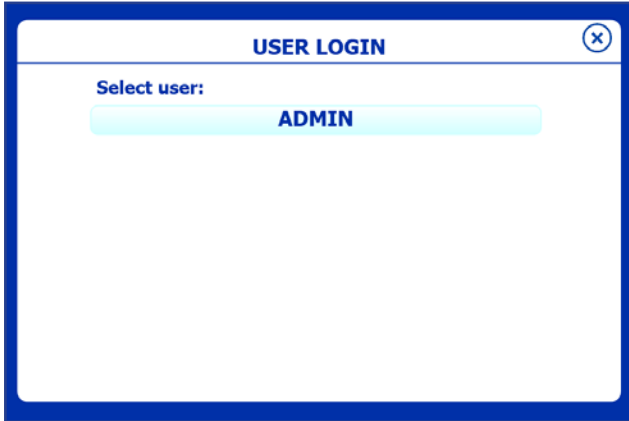

8. Do not disconnect the (tablet) touchscreen or turn off BenchSmart 96 while installation is in progress. During installation, the front of the instrument displays the green firmware upgrade screen.

On the tablet, you will see the following screens

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Installing Instrument Firmware Upgrade

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Firmware Upgrade in Progress - DO NOT Power Off or Disconnect

Bootloader is current (V5), continuing with firmware upgrade...

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Firmware Upgrade in Progress - DO NOT Power Off or Disconnect

Write firmware to pipette... 23% complete

9. When the upgrade is complete, tap CONTINUE.

METTLER TOLEDO

Firmware Upgrade in Progress - DO NOT Power Off or Disconnect

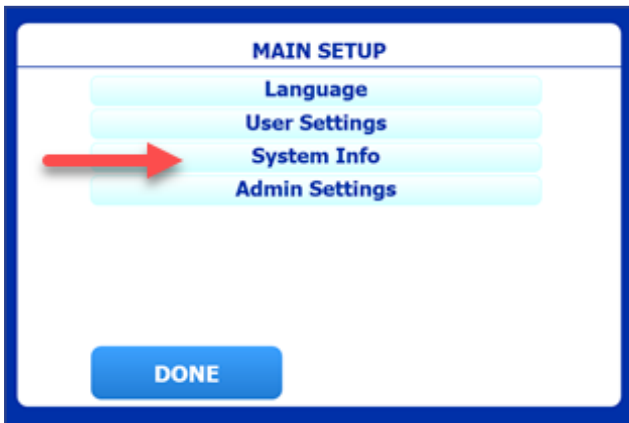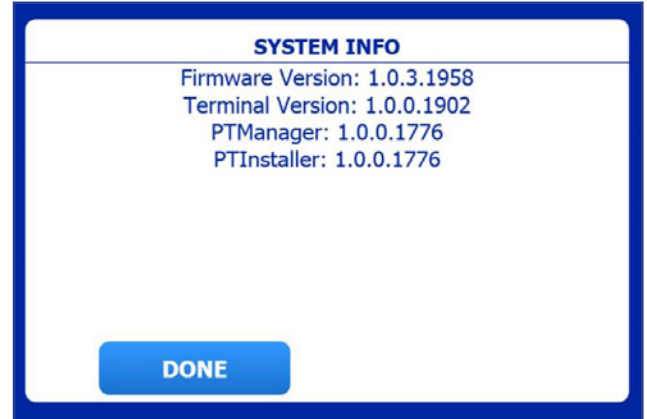Upgrade successful - program complete

CONTINUE

10. Tap 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.

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13. Ensure that Firmware Version 1.0.3 is listed.
    Then tap DONE.

    The BenchSmart 96 is ready for operation.

SYSTEM INFO

Firmware Version: 1.0.3.1958
Terminal Version: 1.0.0.1902
PTManager: 1.0.0.1776
PTInstaller: 1.0.0.1776

DONE

Notes

www.mt.com/rainin

For more information