Instructions

PIPETMAX® 268 Update Package v2.4

Part Number 32000326

The PIPETMAX® 268 Update Package allows you to update the firmware and software for PIPETMAX 268. Updates are cumulative (each update package includes all previously released updates). If updating from a version prior to PIPETMAX 268 Update Package v2.0, contact your local Gilson representative for assistance with this update.

PIPETMAX 268 Update Package v2.4 includes the following updates:

- **Gilson TRILUTION micro**
  Within TRILUTION® micro, the following components were updated:

  qPCR Assistant updates:
  o   Included in the standard product offer.
  o   No longer requires separate licensing.
  NOTE: Before updating qPCR Assistant, be sure to export experiment templates as described in this document.

  Normalization Assistant updates:
  o   Included in the standard product offer.
  o   No longer requires separate licensing.

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POWER ON AND START UP

If updating firmware and software:

1. Use the supplied USB cable to make the connection between the USB device port on the PIPETMAX® 268 and a USB port on the supplied tablet or PC.
2. Connect the PIPETMAX 268 to the external power supply and the external power supply to a power source.
3. Turn power on at the external power supply.
4. Turn the PIPETMAX 268 power on using the MAINS power switch located on the rear panel. The indicator light on the front panel illuminates.
5. Connect the tablet or PC to a power source and power it on.
6. Close the rotating cover or hood door. The PIPETMAX 268 will not operate with the cover or hood door open.
7. Start TRILUTION® micro (PC users only). TRILUTION micro starts automatically on the tablet.
   - Windows® 7
     - Click the **Start** button and then select **All Programs > Gilson Applications > TRILUTION micro > TRILUTION micro x.x**.
   - Windows® 10
     - Click the **Start** button and then select (**All apps) > Gilson Applications > TRILUTION micro x.x**.

If updating software only:

Start TRILUTION micro (PC users only). TRILUTION micro starts automatically on the tablet.

- Windows® 7
  - Click the **Start** button and then select **All Programs > Gilson Applications > TRILUTION micro > TRILUTION micro x.x**.
- Windows® 10
  - Click the **Start** button and then select (**All apps) > Gilson Applications > TRILUTION micro x.x**.

LOG IN

When prompted, enter the "User name" and "Password" for a user with Administrator access and the select **Accept**. Administrator access will be required in the next step.

BACK UP DATABASE

This update will replace the existing database in the assistants, which will remove all existing experiment templates (qPCR Assistant), custom thermal cyclers (qPCR Assistant), and custom labware (all assistants). To retain them, export each (if possible) and then import after updating.

Custom qPCR Thermal Cyclers

It is not currently possible to export qPCR thermal cyclers from qPCR Assistant. qPCR thermal cycler files will need to be obtained from the source. Contact techsupport@gilson.com if you have concerns.

Experiment Templates (qPCR Assistant)

1   Select **Create protocol** and then select qPCR Assistant when prompted.

2   Select **Manage experiment templates**.

3   Select an experiment template name.

4   Select the "Export experiment template" icon ().

5   Select or note the location and then save the file.

6   Select to return to the qPCR Assistant home screen.

Custom Labware

It is not currently possible to export labware from the assistants. Custom labware will need to be exported/obtained from the source. For PC users, the source is likely Labware Creator. Tablet users will have to obtain the files from the person who created them. Contact techsupport@gilson.com if you have concerns.
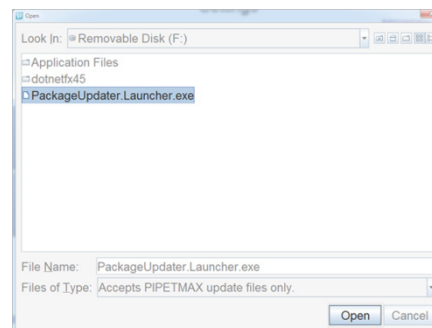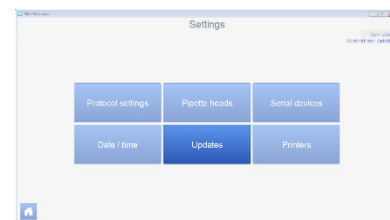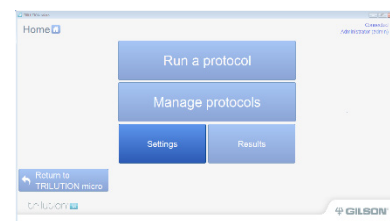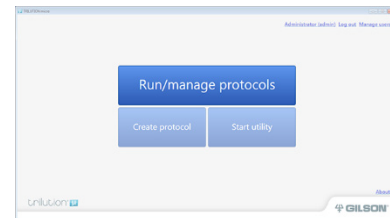

This section contains important information. Please review before updating qPCR Assistant.

GET PACKAGE UPDATER

1   Connect the USB drive containing the package update program to one of the USB ports on the front of the PIPETMAX® 268 or the middle USB host port on the rear panel. (The top USB port on the rear panel is not supported.)

2   Select **Run/manage protocols**.

3   Select **Settings**.

4   Select **Updates**.

5   Browse for **PackageUpdater.Launcher.exe** on the USB drive.

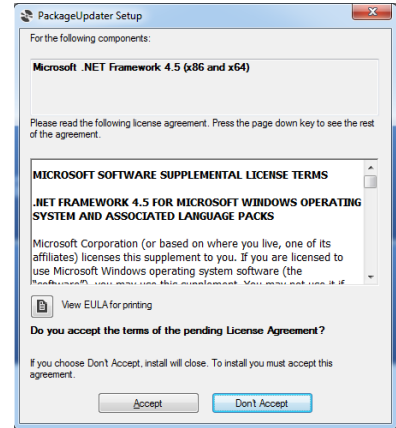6   Select the file and then select **Open**.

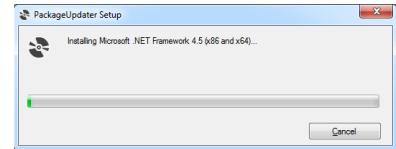# INSTALL MICROSOFT® .NET FRAMEWORK 4.5 (WINDOWS® 7 PC USERS ONLY)

If Microsoft .NET Framework 4.5 is not installed, you will see the screen at right.
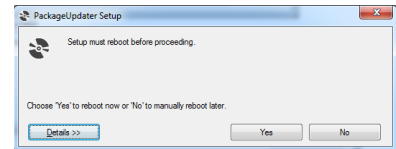
1   Click **Accept**.

2   When a User Account Control screen appears, click **Yes**.

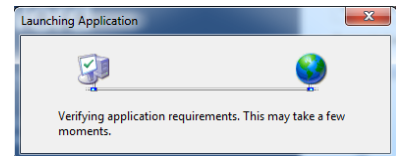3   When you see the screen shown at right, click **Yes** to reboot the PC.

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START PACKAGE UPDATER

The Package Updater installation will start automatically after any prerequisites are installed.
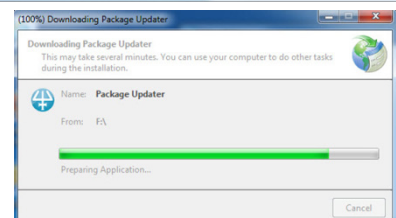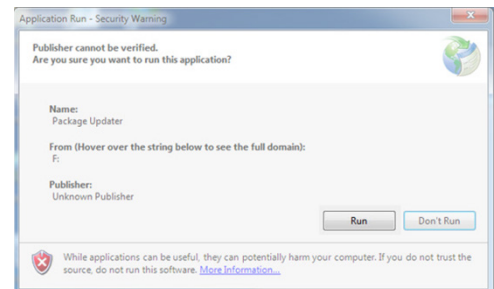
When the Security Warning appears (similar to the one shown at right), select **Run**.

- If running on the tablet, the warning may disappear before you have time to read the Security Warning and select Run.
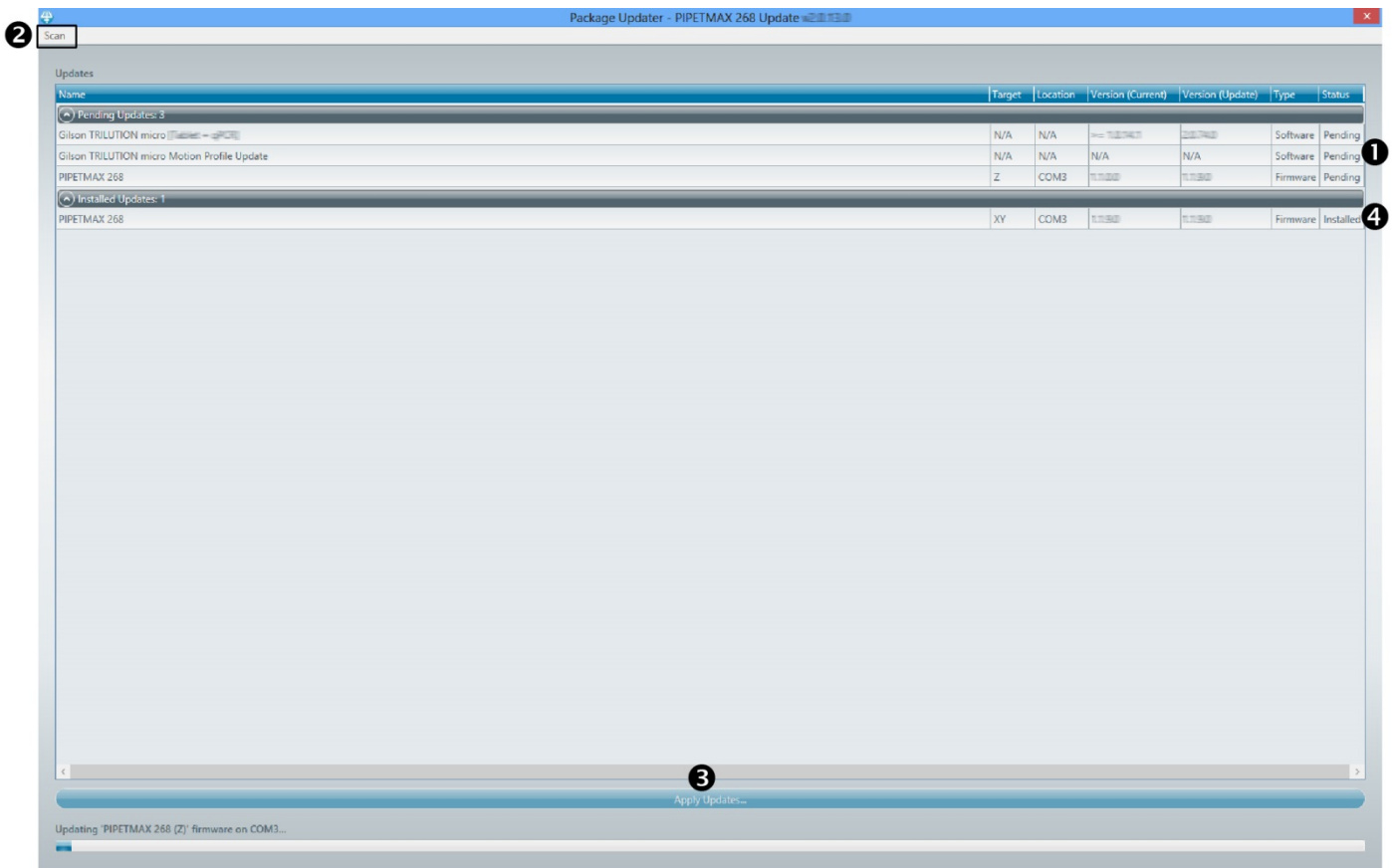
  If this occurs:

  a) Select ⏻ on the Home screen.

  b) Select **Restart TRILUTION micro** to restart only the software, and not the tablet.

  c) TRILUTION® micro will close briefly, exposing the hidden Security Warning for a few seconds. Select **Run** on the Security Warning before TRILUTION® micro re-opens.

TRILUTION® micro closes when the Package Updater software starts.

RUN PACKAGE UPDATER

The Package Updater updates PIPETMAX® 268 software on the tablet or PC and firmware (if connected and necessary).

The Package Updater queries the PIPETMAX 268 and its controller (tablet or PC) for the versions of the installed firmware and software and then displays them.

If an update is available, the Status shows as Pending (❶).

If a PIPETMAX 268 is not connected, ⚠ appears before PIPETMAX 268 and the status shows as Available. To proceed with updating the firmware, check all cabling connections, select **Scan** (❷), and then proceed with the updates.

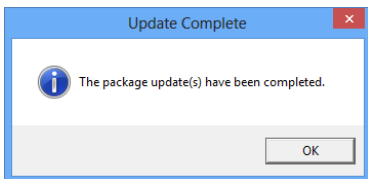1   Select **Apply Updates…(❸)**.

As the updates are applied, the Status for each changes from Pending to Installed (❹).
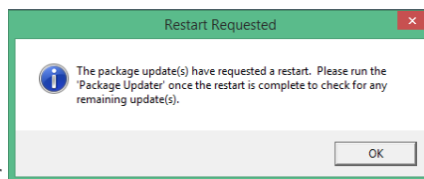
Firmware updates may take several minutes.

Note: If the Package Updater is closed without applying updates, your system may be restarted.

2.   When User Account Control (UAC) screens appear, select **Yes**.

3.   After installing updates, one of two screens will appear. Select **OK**.

If prompted to restart, remove the USB from the drive and then run the Package Updater again after restart to ensure that all available updates have been applied.

4.   When the Status shows as Installed for all updates, close the Package Updater by selecting the red X.

COMPLETE INSTALLATION QUALIFICATION DOCUMENT

Complete the Installation Qualification (LT255560) document supplied in the update package.

IMPORT CUSTOM ELEMENTS

Custom qPCR Thermal Cyclers

1   From the qPCR Assistant home screen, select **Settings**.

2   Select **Manage qPCR thermal cyclers.**

3   Select **Select file**.

4   Browse for and then select the qPCR thermal cycler file.

5   Select **Import**.

6   Select to return to the qPCR Assistant home screen.

Experiment Templates (qPCR Assistant)

1   From the qPCR Assistant home screen, select **Manage experiment templates**.

2   Select **Import experiment template**.

3   Select **Select file**.

4   Browse for and then select the experiment template (.xml) file.

5   Select **Import**.

6   Proceed through the wizard and then save the imported experiment template on the last screen of the wizard.

Custom Labware

1   From the assistant home screen, select **Settings**.

2   Select **Manage labware.**

3   Select **Select file**.

4   Browse for and select the labware file.

5   Select **Import**.

RUN ALIGNMENT PROTOCOL AFTER FIRMWARE UPDATE

It is necessary to run the Alignment Protocol after a firmware update.

Start TRILUTION® micro

Start TRILUTION® micro (PC users only). TRILUTION micro starts automatically on the tablet.

• TRILUTION micro is located in the **Gilson Applications** folder.

Log In

• The default User name is 'admin' and the default Password is 'Gilson268'.
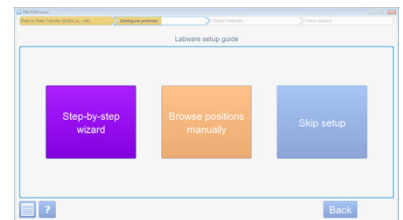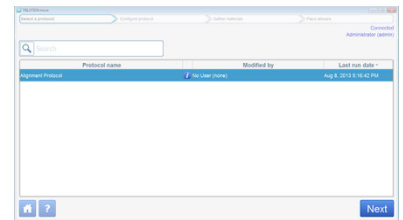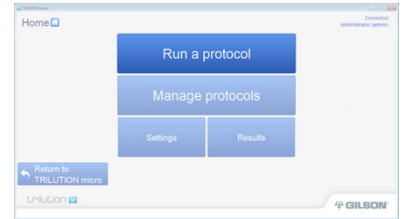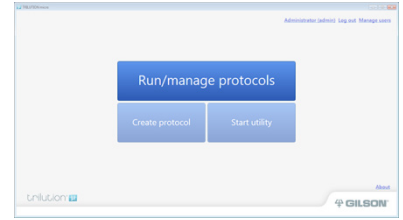
• The Password is case-sensitive.

Run Alignment Protocol

1   Select **Run/manage protocols**.

2   Select **Run a protocol**.

3   Select Alignment Protocol, and then select **Next**.

4   The Scanning dialog appears while the software checks that the PIPETMAX® 268 is connected. If connected, the software goes to the next screen. If not connected, a message will appear suggesting possible solutions.
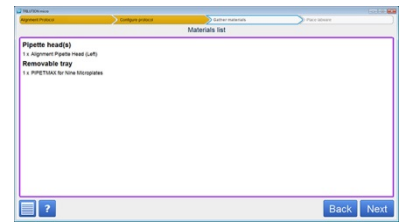
Labware Setup Guide

Select **Step-by-step wizard**.

Gather Materials (Materials List)

Gather the materials in the Materials list, and then select **Next**.

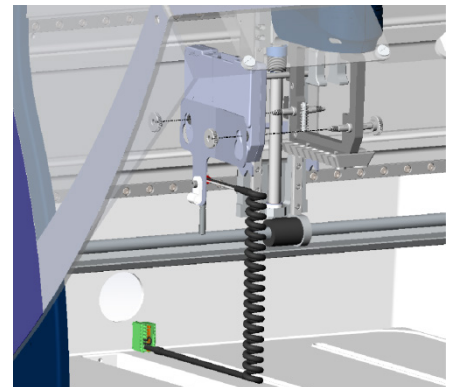## Pipette Head and Tray Setup

Wait for the software to finish "Preparing pipette head" and then open the rotating cover or the hood door.

Remove Pipette Head

Remove the installed pipette head by removing the thumb nuts securing it to the upper pipette head assembly.
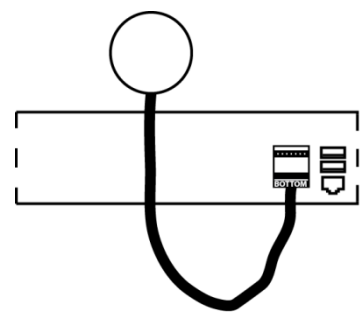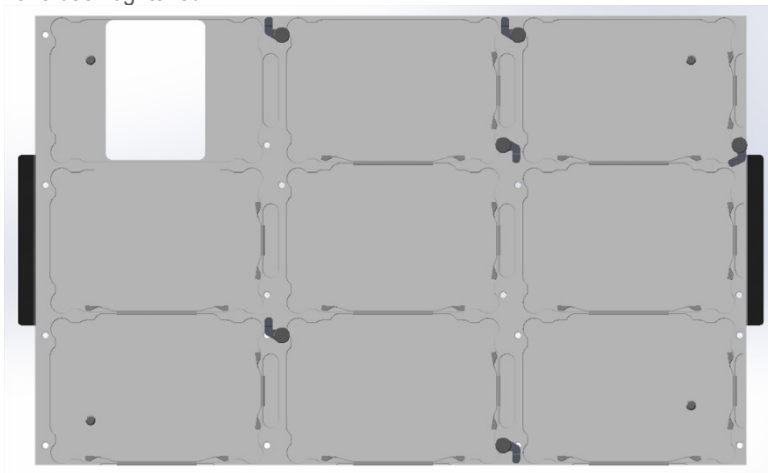
Install and Connect the Alignment Head

1   Install the alignment head on the left side of the upper pipette head assembly using the thumb nuts.

- The alignment pin should be in the hole closest to the rear of the instrument.

- Ensure proper alignment of the head against the upper pipette head assembly before tightening the thumb nuts.

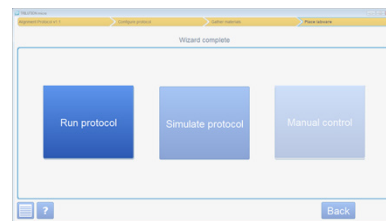2   If installed, remove the black plug from the outlet at the back of the PIPETMAX®268.

3   Pass the end of the alignment cable cord with pre-wired connector through the outlet at the back of the PIPETMAX® 268.

4   The connector is labeled BOTTOM because it connects to the bottom set of input/output ports on the rear panel of the PIPETMAX 268. Make the connection.

   • Disconnect the external safety interlock sensor, if necessary.

5   The clips to secure the tip racks on the tray can interfere with the alignment. Ensure that the clips () are positioned as shown in the diagram below, and that the thumbscrews have been tightened.

from alignment head to BOTTOM input/output port

6   Close the rotating cover or the fume hood door.

7   On the Review initial volumes screen, select **Next**

8   Select **Run protocol**.

9   Wait approximately 3 minutes while the Alignment Protocol runs.

10   A notification appears when the Alignment Protocol is complete. Select **Continue**.

RUN APPLICATION PROTOCOL

When running an application protocol after aligning, use the Step-by-step wizard to remove the alignment head and install the pipette head(s). Connect the external safety interlock sensor, if applicable.

More detailed instructions are provided in the *PIPETMAX® 268 User's Guide*.