

## Quick-Start Guide

1. Ensure each computer that will be used has one of the following installed and activated:

- LabVIEW™ for LEGO® MINDSTORMS®
- ROBOTC®

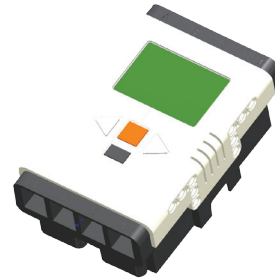
2. Make sure that all of the required resources have been assembled, including:

- TETRIX® Education Base Set (739143)
- LEGO MINDSTORMS Education NXT Base Set (W979797)
- TETRIX Getting Started Guide Printed Document and DVD



3. Ensure that the NXT brick is ready to be programmed.

- The battery should be fully charged using the charger provided in the LEGO MINDSTORMS Education NXT Base Set (W979797).
- The battery should be securely snapped into the back of the NXT brick.
- Any motors or sensors on the robot should be plugged into the correct ports. Refer to the wiring diagrams in the Building Guides for each lesson for clarification.



4. Download the correct firmware to NXT.

### To Download LabVIEW for LEGO MINDSTORMS Firmware:

1. Using a USB cable, connect an NXT brick to the computer.
2. Ensure that the NXT brick is on. If it says "low battery," charging will be required before updating the firmware.
3. Open **LabVIEW for LEGO MINDSTORMS**.
4. Select **Blank VI** under New on the left side of the window.
5. Under Tools, select **NXT Tools** and choose **NXT Terminal**.
6. Under Current NXT, click **Update Firmware**.
7. A new window will appear. Under Available Firmware Files choose the most recent firmware file.
8. Click the **Update** button.
9. The NXT brick will restart itself.
10. A message reading "Successfully Updated Firmware!" will appear under the progress bar when the download is complete.
11. Click the **Close** button and then close the NXT Terminal window.

### To Download ROBOTC Firmware:

1. Using a USB cable, connect an NXT brick to the computer.
2. Ensure that the NXT brick is on. If it says "low battery," charging will be required before updating the firmware.
3. Open **ROBOTC for MINDSTORMS**.
4. Select **New File** under **File**.
5. Under **Robot**, select **Download Firmware Update** and choose **Standard File**.
6. Click the **F/W Download** button.
7. The NXT brick will restart itself.
8. The message log will read "Firmware download completed."
9. Click the **Close** button.