

## Appendix D Firmware and Calculator OS Updates

### CBL 2 and LabPro Firmware

Three of the activities in this book require two motion detectors. While the activities can be completed using two data collection devices (either CBL 2™ or LabPro®, or one of each), it is convenient to use a single Vernier LabPro, since it has two digital input ports.

Some LabPro units must be updated to a newer version of the internal software (called firmware) to work properly with two motion detectors. You can determine if an update is needed by selecting **About** from the File menu in EasyData. The LabPro ROM version appears in parenthesis after the word LabPro. LabPros must have ROM version number 6.13 or newer. ROM versions 6.12 and older do not fully support two motion detectors.

Updating the firmware on a CBL 2 or LabPro requires a TI-GRAPH LINK™ cable (either gray, black or USB-silver) and a computer connected to the internet.

For instructions and downloadable software for updating the CBL 2, go to **education.ti.com**, click on **Products**, **CBL 2**, and then **Apps**.

For complete instructions for updating the LabPro, customized to your particular combination of equipment, and for software downloads, go to **www.vernier.com/calc/flash.html**.

### TI-83 Plus and TI-84 Plus Operating System

#### TI-83 Plus

In order to use the EasyData application, you must have operating system 1.16 or newer on your TI-83 Plus graphing calculator. To check the OS version of your calculator, press  $\text{2nd}$   $\text{+}$  and then select **About** from the Memory menu. For instructions and downloadable software for updating the operating system of your TI-83 Plus, go to **education.ti.com**, click on **Products**, **TI-83 Plus**, and then **Apps**.

#### TI-84 Plus

In order to use the EasyData application, you must have operating system 2.30 or newer on your TI-84 Plus graphing calculator. To check the OS version of your calculator, press  $\text{2nd}$   $\text{+}$  and then select **About** from the Memory menu. For instructions and downloadable software for updating the operating system of your TI-84 Plus, go to **education.ti.com**, click on **Products**, **TI-84 Plus**, and then **Apps**.