

Appendix A: Using the Sonic Range Finder and EasyData App

This guide is a modified excerpt from the full EasyData manual, available on Vernier's website: <http://www.vernier.com>.

Starting EasyData

- 1) If EasyData is not already running on your calculator, press APPS to display the list of available applications, then select EasyData.

Quitting EasyData

- 2) Select QUIT from the main screen

Collecting Data Using Time Graph

- 1) Turn on the calculator and start the EasyData App. The main screen shows the current mode and and current reading from the range finder. The default mode is Time Graph.
- 2) Select FILE and choose 1:New to restore defaults.
- 3) Select START to begin collecting data.
- 4) Data collection will end when all samples have been collected, to stop collection early select STOP. After data has been collected EasyData will display a graph of the collected data.
- 5) To adjust the time interval between samples and total number of samples taken by the time graph collection program select SETUP, then 2:Time Graph, .
- 6) Select EDIT to enter a new value for the time interval. Select NEXT to advance. Enter the desired number of samples to collect. Experiment length will automatically be calculated. Select OK to return to the main screen.

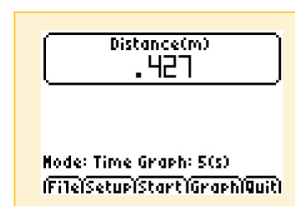


Figure 1. The main screen

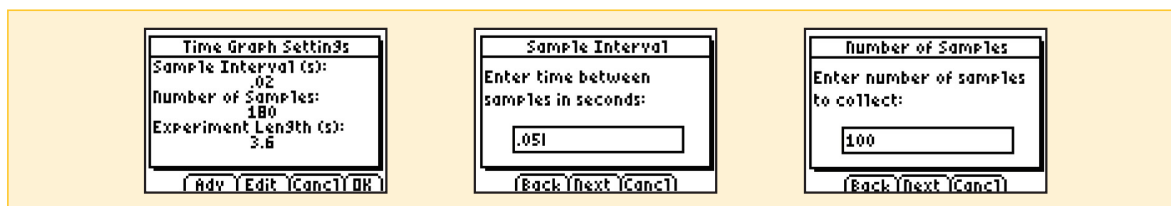


Figure 2. Adjusting the data collection settings for Time Graph mode.

Analyzing Data in Graph Mode

- 1) Use the left and right arrows to move the cursor along the curve. The location of the cursor is displayed in the top right hand corner of the screen.
- 2) Select PLOTS to change the displayed plot to Velocity vs. Time or Acceleration vs. Time.