Using VST Apps (ver 1.00)

The VST Apps application allows you to perform specialized data collection with the TI-83 Plus calculator and the LabPro/CBL 2 interface. It is a neatly wrapped application that includes the following specialty programs: DatMatch, DataGate, DataRad, DaRotary, DataDrop and FunctGen. The following chart describes the features of each of these programs.

Specialty Program Uses[1]

DatMatch	Used with the Motion Detector. The program presents distance vs. time and velocity vs. time graphs, and challenges the students to match the graph.
DataGate	Used to collect data with photogates or Smart Pulleys™.
DataRad	Used with our Student Radiation Monitor and our Radiation Monitor to monitor nuclear radiation. A variety of data collection modes are supported.
DaRotary	Used with the Vernier, Pasco or Team Labs rotary motion sensors. It supports a variety of collection modes including simultaneous analog and rotary sensor data collection. There are also a number of analysis features.
DataDrop	Used with the Vernier Drop Counter. It is useful for automating titration or equivalence point experiments.
FunctGen	Allows your calculator to command a LabPro interface to behave like an analog function generator. Among other things, it can be used to study harmonic oscillation in strings and LRC circuit response. This program will work only with LabPro and requires LabPro operating system 6.22 or higher.

Loading VST Apps to Your Calculator

VST Apps can be loaded to your calculator via a TI-Graph Link cable and TI-Graph Link software or TI-Connect software[2].

Starting the VST Apps Application

To use the VST Apps application, your TI-83 Plus Graphing Calculator must be connected to your LabPro/CBL 2 interface.

Press $\boxed{\text{APPS}}$, then press the calculator key for the *number* that precedes VST Apps. Wait for the main screen to load.

---

[1] None of the specialty programs described here can be loaded into the RAM of the calculator. If you have previously loaded one or more of them onto your calculator, delete them before using the VST Apps application.

[2] For help using TI-Graph Link or TI Connect software, consult *Beyond Datamate*, available on the Vernier web site at www.vernier.com.

An introductory screen appears briefly, then the main menu displays.

```
    SELECT A PROGRAM
1:DATMATCH   5:DATADROP
2:DATAGATE   6:FUNCTGEN
3:DATARAD    7:QUIT
4:DAROTARY
```

Selecting a Program

Select one of the specialty programs from the main menu. As soon as you do so, that program will run. When you are finished with the specialty program, you will again be shown the main menu of the VST Apps application.

Exiting the Application

On the VST Apps main menu, select QUIT. The calculator displays the message Done and returns to the Home Screen.