Here are the differences of the 9850G+ to the TI83 with the corresponding Current Catalog Specification listed below in italics:

1. Casio's 9850G/+ is a **color** graphing calculator, capable of showing three different colors to differentiate between graphs, area under curves, or area of integration as well as inequality shading.

8 line by 21 character, 3 color display

2. Casio's 9850G/+ has a **conics section** which is capable of graphing conics simply by typing in the values in any of the nine standard equations. The Casio also allows you to investigate these graphs by trace, as well as solve for the critical values such as focus, directrix, center, intercepts, assymptotes, etc.

Graph and Investigate Properties of Standard Conic Sections (parabola, hyperbola, circle, ellipse) such as focus, asymptote, axis of symmetry, slope, length of latus rectum, directrix and radius.

3. Casio's 9850G/+ is capable of using fraction's **throughout** each area of the calculator, and can also calculate fraction to decimal, mixed numbers, and improper fractions.

4. Casio's 9850G/+ has an area defined as **Dynamic Graphing** that allows you to type in an equation and vary or change a coefficient of your choice to see how it affects/changes the graph. The speed at which the different graphs are displayed can also be controlled.

Animated, dynamic graphing of equations with variable coefficients

5. Casio's 9850G/+ graph window is **scrollabl**e allowing freedom of movement within the graph. There are no fixed boundaries, just simply arrow around to choose the appropriate window.

6. Casio's 9850G/+ has **two** selectable methods of integration, either Gauss-Kronrod or Simpson's.

7. Casio's 9850G/+ actually allows **separate analysis** of each graph when in the dual screen viewing area.

Dual screen Shows two graphs, graph and zoom, or graph and table on the same screen.

8. Casio's 9850G/+ is capable of graphing **vertical lines**.

Sketch feature draws lines, points, horizontal lines, vertical lines, circles and tangents and normals on any display.

9. Casio's 9850G/+ has **two different types of Box and Whisker plots**. (Mean & Median)

Single and double variable statistics graphing including box and whisker plots (both mean and median type), histograms, scatter plots, X-Y lines, broken lines, median-median lines and regression curves.

10. Casio's 9850G/+ equation solver area is capable of solving simultaneous equations in standard form simply by inputting the variables. Up to six equations, six unknowns can be solved for.

Solve for real and complex solutions to systems of up to 6 simultaneous equations or quadratic and cubic polynomials.

11. Casio's 9850G/+ calculator is organized similar to a "windows" type environment with Icon represented menus. Simply select the icon that represents your area of interest to access the appropriate functions.

Not in specs area but in catalog: *large, 21 character X8 line color display with dual screen capability. On-screen , icon-driven menu provides easy access to advanced functions*

Teaching Devices:

12. Casio's 9850G/+ teaching **TV interface** allows you to graph in color on a television or television projection device. This gives flexibility when demonstrating your lesson.

Exclusive NTSC Calculator to Television interface for demonstrating calculator in the classroom.

12. Casio's 9850G/+ Infra-red controlled LCD overhead panel with **wireless controller** allows freedom of movement for the teachers, so they can give personal attention to their students and still conduct their lesson.

Wireless infra-red overhead model available for classroom use.

EA100 Differences:

1. Casio's EA100 can be used as a "stand alone" device because of it is capable of being run independent of a graphing calculator for simple data collection. (Voltage, Temperature, Light, and Motion). You simply select the sample rate and number of samples from preset choices.

Manual "Set-up" function allows you to select channel sampling time and number of samples.

2. Casio's EA100 is capable of auto sensing the voltage, temperature, light, and motion probes, so when data is sampled the appropriate reading is directly displayed on the EA100. E.G. When temperature is sampled, degrees Celsius is displayed without any dependence of a calculator to "convert" the data.

Auto "ID Probe" can automatically recognize the type of probe connected to each channel.

3. Casio's EA100 is directly inter-faceable to the Cassiopeia handheld pc.