



# Your PDF Guides

You can read the recommendations in the user guide, the technical guide or the installation guide for CASIO CFX-9850GB PLUS. You'll find the answers to all your questions on the CASIO CFX-9850GB PLUS in the user manual (information, specifications, safety advice, size, accessories, etc.). Detailed instructions for use are in the User's Guide.

User manual CASIO CFX-9850GB PLUS  
User guide CASIO CFX-9850GB PLUS  
Operating instructions CASIO CFX-9850GB PLUS  
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*fx-9750G PLUS*  
*CFX-9850G PLUS*  
*CFX-9850GB PLUS*  
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*User's Guide*

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**Manual abstract:**

@@@@When you do, the Graph Function menu appears on the display. @@{draw/non-draw status} · {DEL} ... {function delete} · {TYPE} ... {graph type menu} · {COLR} ...

{graph color} CFX · {GMEM} ... {graph memory save/recall} · {DRAW} ..

. {graph draw} indicates {COLR} is not supported by the fx-9750G PLUS. CFX CASIO ELECTRONICS CO., LTD. Unit 6, 1000 North Circular Road, London NW2 7JD, U.

K. Important! Please keep your manual and all information handy for future reference. BEFORE USING THE CALCULATOR FOR THE FIRST TIME... Be sure to perform the following procedure to load batteries, reset the calculator, and adjust the contrast before trying to use the calculator for the first time. 1. Making sure that you do not accidentally press the o key, attach the case to the calculator and then turn the calculator over. Remove the back cover from the calculator by pulling with your finger at the point marked 1. 1 2.

Load the four batteries that come with calculator. · Make sure that the positive (+) and negative (-) ends of the batteries are facing correctly. BACK UP 3. Remove the insulating sheet at the location marked "BACK UP" by pulling in the direction indicated by the arrow. BACK UP 4. Replace the back cover, making sure that its tabs enter the holes marked 2 and turn the calculator front side up. The calculator should automatically turn on power and perform the memory reset operation. 2 i 5. Press m. \* The above shows the CFX-9850 (9950)G(B) PLUS screen.

\* The above shows the fx-9750G PLUS screen. · If the Main Menu shown above is not on the display, press the P button on the back of the calculator to perform memory reset. P button 6. Use the cursor keys (f, c, d, e) to select the CONT icon and press E w or simply press c to display the contrast adjustment screen. CFX-9850(9950)GB PLUS, CFX-9850G PLUS fx-9750G PLUS 7.

Adjust the contrast. uTo adjust the contrast · Use f and c to move the pointer to CONTRAST. CFX · Press e to make the figures on the display darker, and d to make them lighter. uTo adjust the tint CFX 1. Use f and c to move the pointer to the color you want to adjust (ORANGE, BLUE, or GREEN).

2. Press e to add more green to the color, and d to add more orange. 8. To exit display contrast adjustment, press m. ii ABOUT THE COLOR DISPLAY CFX

The display uses three colors: orange, blue, and green, to make data easier to understand. · Main Menu · Display Color Adjustment · Graph Function Menu · Graph Display (Example 1) · Graph Display (Example 2) · Graph-To-Table Display · Dynamic Graph Display · Table & Graph Numeric Table · Recursion Formula Convergence/ Divergence Graph Example iii · Statistical Regression Graph Example CFX · When you draw a graph or run a program, any comment text normally appears on the display in blue. You can, however, change the color of comment text to orange or green. Example: To draw a sine curve 1. Enter the GRAPH Mode and input the following. 3(TYPE)1(Y=) (Specifies rectangular coordinates.

) swf (Stores the expression.) 2. 45 4(COLR) 2 3456 · Press the function key that corresponds to the color you want to use for the graph: 1 for blue, 2 for orange, 3 for green. 3. 2(Orng) (Specifies the graph color.) J 4. 6 6(DRAW) (Draws the graph) You can also draw multiple graphs of different color on the same screen, making each one distinct and easy to view. iv KEYS Alpha Lock Normally, once you press a and then a key to input an alphabetic character, the keyboard reverts to its primary functions immediately. If you press ! and then a, the keyboard locks in alpha input until you press a again. v KEY TABLE Page 128 Page 132 Page 113 Page 154 Page 144 Page 120 2 27 47 369 28 46 46 46 46 47 4 3 2 47 46 46 45 45 47 36 45 45 45 45 49 49 49 36 22 Page Page Page Page 21 20 Page 36 36 36 45 36 39 36 36 vi Quick-Start Turning Power On And Off Using Modes Basic Calculations Replay Features Fraction Calculations

Exponents Graph Functions Dual Graph Box Zoom Dynamic Graph Table Function Quick-Start Welcome to the world of graphing calculators.

Quick-Start is not a complete tutorial, but it takes you through many of the most common functions, from turning the power on, to specifying colors, and on to graphing complex equations. When you're done, you'll have mastered the basic operation of this calculator and will be ready to proceed with the rest of this user's guide to learn the entire spectrum of functions available. Each step of the examples in Quick-Start is shown graphically to help you follow along quickly and easily. When you need to enter the number 57, for example, we've indicated it as follows: Press fh Whenever necessary, we've included samples of what your screen should look like. If you find that your screen doesn't match the sample, you can restart from the beginning .

by pressing the "All Clear" button o TURNING POWER ON AND OFF o. OFF To turn power off, press !o. To turn power on, press Note that the calculator automatically turns power off if you do not perform any operation for about six minutes (about 60 minutes when a calculation is stopped by an output command (^)). USING MODES This calculator makes it easy to perform a wide range of calculations by simply selecting the appropriate mode. Before getting into actual calculations and operation examples, let's take a look at how to navigate around the modes.

To select the RUN Mode 1. Press m to display the Main Menu. \* The above shows the CFX-9850 (9950)G(B) PLUS screen. viii Quick-Start 2. Use defc to highlight RUN and then press w. This is the initial screen of the RUN mode, where you can perform manual calculations, and run programs. BASIC CALCULATIONS With manual calculations, you input formulas from left to right, just as they are written on paper. With formulas that include mixed arithmetic operators and parentheses, the calculator automatically applies true algebraic logic to calculate the result. Example:  $15 \times 3 + 61$  1. Press 2.

Press o to clear the calculator. bf\*d+gbw. Parentheses Calculations Example:  $15 \times (3 + 61)$  1. Press bf\*(d+gb)w. Built-In Functions This calculator includes a number of built-in scientific functions, including trigonometric and logarithmic functions. Example:  $25 \times \sin 45^\circ$  Important! Be sure that you specify Deg (degrees) as the angle unit before you try this example. ix Quick-Start 1. Press o. m to switch the set up display. SET UP 2.

Press! 3. Press degrees as the angle unit. cccc1 (Deg) to specify 4. Press 5. Press 6.

Press J to clear the menu. o to clear the unit. cf\*sefw. REPLAY FEATURES With the replay feature, simply press or to recall the last calculation that was performed.



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This recalls the calculation so you can make changes or re-execute it as it is.

de Example: To change the calculation in the last example from  $(25 \times \sin 45^\circ)$  to  $(25 \times \sin 55^\circ)$  1. Press 2. Press 3. Press 4. Press d to display the last calculation. d twice to move the cursor under the 4. f. w to execute the calculation again. x Quick-Start FRACTION CALCULATIONS You can use the key to input fractions into calculations. The symbol " { " is used to separate the various parts of a fraction.

\$ Example:  $1 \frac{15}{16} + 37/9$  1. Press 2. Press o. b\$bf\$ bg+dh\$ jw. Indicates  $6 \frac{7}{144}$  Converting a Mixed Fraction to an Improper Fraction While a mixed fraction is shown on the display, press improper fraction. d/c ! \$to convert it to an d/c Press ! \$again to convert back to a mixed fraction. Converting a Fraction to Its Decimal Equivalent While a fraction is shown on the display, press lent. Press M to convert it to its decimal equiva- M again to convert back to a fraction. xi Quick-Start EXPONENTS Example:  $1250 \times 2.065$  1.

Press 2. Press 3. Press o. bcfa\*c.ag.

M and the ^ indicator appears on the display. f. w. The ^5 on the display indicates that 5 is 4. Press an exponent.

5. Press xii Quick-Start GRAPH FUNCTIONS The graphing capabilities of this calculator makes it possible to draw complex graphs using either rectangular coordinates (horizontal axis: x ; vertical axis: y) or polar coordinates (angle: ; distance from origin: r). Example 1: To graph  $Y = X(X + 1)(X - 2)$  1. Press 2. Use m. d, e, f, and c to highlight GRAPH, and then press w. 3. Input the formula. v (v+b) (v -c)w 4. Press 6 (DRAW) or w to draw the graph.

Example 2: To determine the roots of  $Y = X(X + 1)(X - 2)$  1. Press ! 5 (G-Solv). 1 xiii Quick-Start 2. Press 1 (ROOT). Press e for other roots. Example 3:

Determine the area bounded by the origin and the  $X = 1$  root obtained for  $Y = X(X + 1)(X - 2)$  1. Press !5 (G-Solv). 123456 2. Press 6 (g). 123456 3. Press 3 (dx). 4. Use  $X = 1$ , and then press then press d to move the pointer to the location where w. Next, use e to w to input the integration range, which move the pointer to the location where  $X = 0$ , and becomes shaded on the display. xiv Quick-Start DUAL GRAPH With this function you can split the display between two areas and display two graphs on the same screen.

Example: To draw the following two graphs and determine the points of intersection  $Y1 = X(X + 1)(X - 2)$   $Y2 = X + 1.2$  1. Press "Graph" for the Dual Screen setting. !ZccI(Grph) to specify 123456 2. Press J, and then input the two functions.

v(v+b) (v-c)w v+b.cw 6 (DRAW) or w to draw the graphs. 3. Press BOX ZOOM Use the Box Zoom function to specify areas of a graph for enlargement. 1. Press ! 2 (Zoom) 1 (BOX). c w 2. Use and to move the pointer to one corner of the area you want to specify and then . press d, e, f, xv Quick-Start 3. Use and to move the pointer again.

As you do, a box appears on the display. Move the pointer so the box encloses the area you want to enlarge. d, e, f, c and the enlarged area appears in the 4. Press inactive (right side) screen. w, DYNAMIC GRAPH Dynamic Graph lets you see how the shape of a graph is affected as the value assigned to one of the coefficients of its function changes. Example: To draw graphs as the value of coefficient A in the following function changes from 1 to 3  $Y = AX^2$  1. Press 2.

Use m. d, e, f, and c to highlight DYNA, and then press w. 3.

Input the formula. aAvxw 4 12356 xvi Quick-Start 4. Press (VAR) of 1 to coefficient A. 4 bw to assign an initial value 1 5. Press (RANG) to specify the range and increment of change in coefficient A.

23456 2 bwdwbw 6. Press J. 6(DYNA) to start Dynamic Graph drawing. 7. Press The graphs are drawn 10 times.

xvii Quick-Start TABLE FUNCTION The Table Function makes it possible to generate a table of solutions as different values are assigned to the variables of a function. Example: To create a number table for the following function  $Y = X(X+1)(X-2)$  1. Press 2. Use m. d, e, f, and c to highlight TABLE, and then press w. 3. Input the formula. v(v+b) (v-c)w 4. Press table. 6 (TABL) or w to generate the number To learn all about the many powerful features of this calculator, read on and explore! xviii Handling Precautions · Your calculator is made up of precision components.

Never try to take it apart. · Avoid dropping your calculator and subjecting it to strong impact. · Do not store the calculator or leave it in areas exposed to high temperatures or humidity, or large amounts of dust. When exposed to low temperatures, the calculator may require more time to display results and may even fail to operate. dealer or distributor. xx

..... fx-9750G PLUS CFX-9850G PLUS CFX-9850GB PLUS CFX-9850GC PLUS CFX-9950GB PLUS ..... Contents Getting Acquainted -- Read This First! .



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