CFX-9850GB PLUS CFX-9950GB PLUS Software Library



Acknowledgement

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We would like to thank all of the professors and teachers around the world without whose programs this Software Library would not be possible.

CASIO COMPUTER CO., LTD.

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Loading Program Library Programs

This calculator comes with a built-in Program Library that provides you with a collection of application programs. Unlike programs you input yourself, you must use the procedure described below to load Program Library programs into memory before you can run them.

- The Program Library is divided into sub-libraries.
- You cannot edit or reference the contents of a Program Library program.

To load the program "FACT" (JAPAN sub-library)

1. On the icon menu, select **PRGM**.

- 2. Use the function keys to execute the LOAD command.
 - **F6** (▷) **F5** (LOAD)

AUSTRALIA EA-100 JAPAN SPAIN U.S.A UK

tware Library

3. Use the (and (cursor keys and EXE) to select first the sub-library and then the program.

(() () "JAPAN"	EXE
(🔽 💽) "FACT"	EXE

(The message "Load Complete!" appears for about one
second. After that, the display returns to normal.)

• You can also jump to a specific location in the sub-library by inputting a letter.

Inputting the letter "F" (**ALPHA F**), for example, causes the highlighting to jump to the first program name in the sub-library that starts with "F".

• The message "Memory Full!" appears for about one second when there is not enough memory to store the program. Delete data you no longer need and try again.





• The screen shown to the right appears when a program with the same name as the one you are trying to load already exists in memory. Perform one of the following key operations when this happens.

[CAOSI1] Already Exists Overwrite? F1:Yes F6:No AC:Cancel	
YES	NO

"YES" **F1** Replaces the existing program with the one you are loading.

- IF6 "NO" Skips the program with the same name and continues with the load operation.
- "AC" Aborts the load operation.
- 4. Press **AC** to return to the Program List screen.

Now you can run the program using the same procedures that you use to run your own programs.

Important!

- Executing some programs change the setting of your calculator. Be sure to check your calculator settings before executing a new program.
- Access the Web site at the following URL for detailed descriptions of each program does and how to use them:

http://world.casio.com/edu_e/

1 australia

1-1 Binomial Probability Distribution

Description : Produces a binomial probability distribution table. **File Name :** BINPROB

1-2 Differential Equation Plot

Description : Draws the graph for any differential equation.

File Name : D.E.PLOT

* This program requires input of a formula in area Y1 of the Graph Mode.

1-3 Difference

Description : Finds the difference between each successive pair of values in a list (List 1) and stores the results in another list (List 2).

File Name : DIFFLIST

1-4 Differential Equation

Description : Draws the direction field diagram for any differential equation.

File Name : DIRECFLD

* This program requires input of a formula in area Y1 of the Graph Mode.

1-5 Mandelbrot

Description : Draws part of the Mandelbrot Set of fractals. **File Name :** MANDLBRT

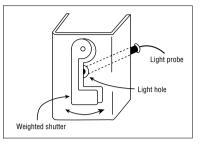
2 EA-100

2-1 Acceleration Meter

Description : Measures acceleration using a strip of aluminum that is bent by inertia.

Probe : Light Probe

File Name : ACCELA

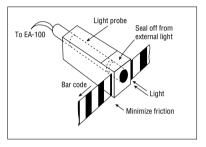


2-2 Measurement of Velocity and Acceleration Using a Bar Code

Description : Measures velocity and acceleration of a bar code passing in front of a light probe.

Probe : Light Probe

File Name : BAR V,A

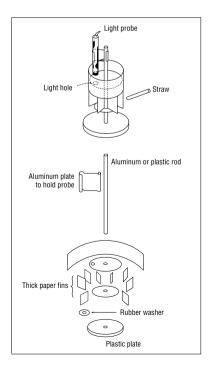


2-3 Breathing Capacity

Description : Measures breathing capacity in accordance with the speed of rotating blades.

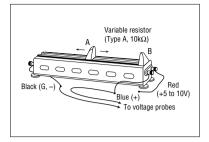
Probe : Light Probe

File Name : BREATH



2-4 Digital Calipers

Description : Determines the distance between the	
	two terminals of the calipers and
	produces it as a value on the display.
Probe	: Voltage Probe
File Name	: CALIPERS



2-5 Display

Description : Plots temperature values measured by the EA-100 every second for one minute.

: Temperature Probe Probe

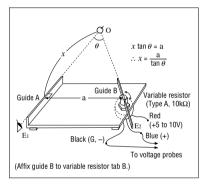
File Name : DISPLAY

2-6 Range Finder

Description :	Measures the distance to an object in
	accordance with its distance and
	direction (angle) from two reference
	points.

Probe : Voltage Probe

File Name : DISTANCE

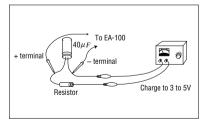


2-7 Electric Charge Curve of a Capacitor

Description :	Shows changes in capacitor terminal
	voltage.

Probe : Voltage Probe

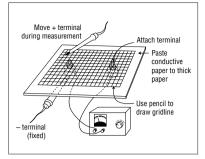
File Name : ELECHARG



2-8 Electrical Potential Surface

Description : Measures and graphs the distribution of electric potential on the surface of a paper.

- Probe : Voltage Probe
- File Name : ELEPOTSF
- * Change the set up screen's Fix setting to 1 before executing this program.

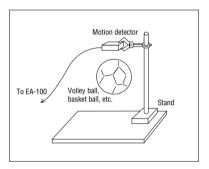


2-9 Free Fall of Ball and Repulsion Coefficient

Description : Graphs the height, speed, and changes in acceleration over time of a falling ball, and determines the repulsion coefficient from the height of the rebound.

Probe : Motion Detector

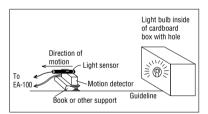
File Name : FREEFALL



2-10 Distance from Light Source and Intensity

Description : Determines the relationship between the distance from a light source and illuminance.

Probes : Light Prove, Motion Detector File Name : LIGHTINT

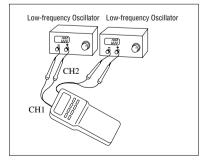


2-11 Lissajous Curves

Description : Produces a Lissajous curve using two sine waves for which a simple integral ratio is established.

Probes : Two Voltage Probes

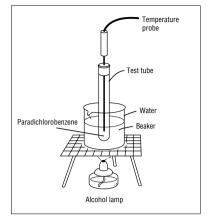
File Name : LISSAJOU



2-12 Melting Point of p-dichlorobenzene

Description : Determines the melting point of pdichlorobenzene.

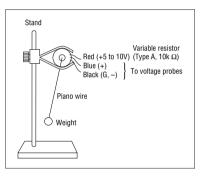
- Probe : Temperature Probe
- File Name : MELTPNT



2-13 Simple Pendulum

Description	: Produces a sine wave based on the movement of a simple
	pendulum.
Probe	: Voltage Probe

File Name : PENDULUM

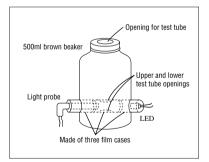


2-14 Measurement of pH with Colorimetric Density Meter

Description : Measures the acidity of rainwater.

Probe : Light Probe

File Name : PHMEASUR

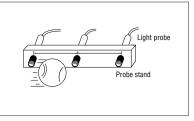


2-15 Measurement of Velocity and Acceleration from Three Points

Description : Measures velocity and acceleration of a moving object using three light probes placed along its path.

Probes : Three Light Probes

File Name : PNT V,A

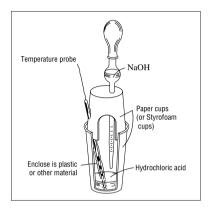


2-16 Temperature Titration

Description	: Determines the neutralization point
	of an acid and an alkali (base).

Probe : Temperature Probe

File Name : TEMPTIT



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3-1 Chaos

Description : Draws chaos fractals.

The following programs are provided: CAOSI1, CAOSI2, CAOSI3, CAOSI4.

3-2 Greatest Common Measure

Description : Determines the greatest common measure for two integers (*a* and *b*) using Euclidean general division.

File Name : CMN

* See Chapter 22 of your User's Guide.

3-3 Prime Factor Analysis

Description : Produces prime factors of any positive integers. **File Name :** FACT

3-4 Iterated Function System

Description : Draws fractals.

File Name : IFPLOT

* This program requires input of a matrix named Mat A.

3-5 Rotating a Figure

Description : Graphs rotation of any geometric figure. File Name : ROTATE

* See Chapter 22 of your User's Guide.

3-6 Julia Set and Mandelbrot Set

Description : Draws Julia set and Mandelbrot set fractals. **The following programs are provided:** SAFESET1, SAFESET2, SAFESET3, SAFESET4.

3-7 *t*-test

Description : Uses mean (sample mean) and sample standard deviation to obtain a *t*-test value.

File Name : T TEST

* See Chapter 22 of your User's Guide.

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3-8 Circle and Tangents

Description : Obtains the slope and intercept from lines that are tangent to a circle.

File Name : TANGENT

* See Chapter 22 of your User's Guide.

3-9 Linear Transformation

Description : Performs rotation, parallel displacement, and magnification of a graphic image. **File Name :** TRANSFER

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4-1 Mandelbrot Fractal

Description : Draws built-in Mandelbrot set fractals. **The following programs are provided:** NM-O-I, NM-O-I-B, NMAND2Z, NMAND3R.

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5-1 Amortize

Description : Computes standard amortization calculations involved with annuities and loans: present value, future value, loan payments, and sinking fund payments.

File Name : AMORTIZE

5-2 Bond Calculation

Description : Performs bond calculations. File Name : BONDMAIN

5-3 Powers of Complex Numbers

Description : Finds any power of a complex number.

File Name : CMPLXPWR

* Change the set up screen's Angle setting to Rad (radians) before executing this program.

5-4 Complex Roots

Description : Finds and displays the N complex solutions of $Z^N = c$, where c is any complex (or real) number and N is a positive integer.

File Name : CMPLXRT

* Change the set up screen's Angle setting to Rad (radians) before executing this program.

5-5 Double Integral

Description : Numerically approximates a double integral using the following formula:

$$\int_{a}^{b} \int_{f_4}^{f_5} f_6(x, y) d\mathsf{A} = \sum f_6(\bar{x}_i, \bar{y}_i) \, \Delta x_i y_i$$

File Name : DBLINT

5-6 Euler's Method

Description : Plots the Euler's method solution of the following differential equation: $dy/dx = f_6(x, y)$

File Name : EULER

5-7 Forecasting

Description : Uses exponential smoothing and the Holt-Winters forecasting model to predict future values from a chronological series of data.

File Name : FORECAST

5-8 Fundamental Theorem

Description : Numerically solves the differential equation $dy/dx = f_6(x)$, and plots the antiderivative $F(x) = F(a) + \int_a^x f_6(t) dt$.

File Name : FUNDTHM

5-9 Conic Section Graph

Description : Graphs *F* (*x*, *y*) as a conic section graph. **File Name : IMPGRAPH**

5-10 Linear Programming

Description : Solves a linear programming problem by the simplex method.

File Name : LINPROG

5-11 Prime or Composite Number

Description : Determines whether a number is prime or composite, and returns the lowest prime divisor for a composite number.

File Name : PRIME

5-12 Riemann Sum

Description : Approximates an integral by a Riemann sum:

```
\int_{a}^{b} f_{6}(x) dx = \sum f_{6}(\bar{x}i) \Delta x
File Name : RIEMANN
```

5-13 Row Reduce Matrix A

Description : Row reduces Matrix A to reduce row echelon form. **File Name :** ROWREDA

5-14 Slope Field

Description : Graphs the slope field of the following differential equation:

 $\frac{dy}{dx} = f_6(x, y)$ File Name : SLOPEFLD

5-15 Triple Integral

Description : Numerically approximates a triple integral using the following formula:

 $\int_a^b \int_{f_2}^{f_3} \int_{f_4}^{f_5} f_6(x, y, z) \, \mathrm{dV} = \sum f_6(\bar{x}_i, \bar{y}_i, \bar{z}_i) \, \varDelta x_i \varDelta y_i \varDelta z_i$

File Name : TRIPLINT

5-16 Time Value of Money

Description : Produces financial graphs based on data provided for any two of the following factors: future value (FV), payment amount (PMT), interest rate (I%), number of payments (*n*), and present value (PV).

File Name : TVMMAIN

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6-1 Fibonacci Sequence Generator

Description : Calculates the *n*-th number in the Fibonacci sequence. **File Name :** FIBGEN

6-2 Triangle

Description : Displays the area and three angles of a triangle.

File Name : TRI

* Change the set up screen's Angle setting to Deg (degrees) before executing this program.

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