General Overview

The RLM-11CX calculator application is an extensive set of tools and enhancements inspired in the real HP-11C calculator. It works in the same way, but expanded with 15 digits precision, 10 control flags, 1000 program steps and a complete set of menus to handle almost any scientific, financial and business problem (toggle tapping the **[OPT]** key). Also, the Display was expanded to show all the Stack registers and, in landscape orientation, the content of the storage registers, control flags and program memory.

The HP-11C calculator was designed and introduced by Hewlett Packard in 1981 and discontinued in 1989. It was a mid-range programmable scientific calculator whose design, ease of use, and RPN logic allows it to retain its value for scientists and engineers around the world.

Landscape Orientation (Left Handed Setting OFF)

Portrait Orientation

Landscape Orientation (Left Handed Setting ON)

The normal ON key present in the real calculator was changed by the **OPT** key to show or hide the **Main Menu** described next.

Main Menu (OPT key)

Finance Menu	
Account Balance	Calculates the balance of a credit line type account at any date based on a (Date, Transaction) List of cash flows or interest rates that can occur at any date.
Amortization	Calculates a loan Amortization Schedule from a single loan payment or from several payments at once.
Bond Price & Yield	Calculates annual or semi-annual coupons bonds with actual or 360 days/year calendar with all options and values at sight.
Black-Scholes Options	Calculates the prices of a CALL and PUT options and the Greeks using the Black-Scholes European option valuation model.
> Cash Flows:	Shows a submenu to select the type of cash flow.
Equal Periods	Calculations with Cash Flows occurring at regular time intervals using a (Value,Frequency) List.
Unequal Periods	Calculations with Cash Flows occurring at different dates using a (Date, Value) List.
Depreciation	Calculates the Depreciation Schedule of an asset using SL, SOYD, DB or ACRS methods.
Interest Conversion	Calculates nominal and effective interest rates using either periodic or continuous compounding.
TVM: Time Value of Money	Calculates compound Interest problems involving money earning interest over a period of time.

Business Menu	
Bill-Tip-Split	Calculates the total and the amount to pay per person based on a bill amount, a number of persons and a tip percent or amount.
Break-Even	Calculates break-even based on the following equation: Profit = (Price - Var.Cost) • Units - Fix.Cost
Currency Exchange	Calculates a currency exchange between two selected world currencies and common crypto currencies.
Margins	Calculates the business margin, mark-up, price or cost with all values at sight.
Percents	Calculates percent change and percent total in a single menu with all values at sight.

Date / Time Menu
Perform Date and Time calculations with all values at sight.

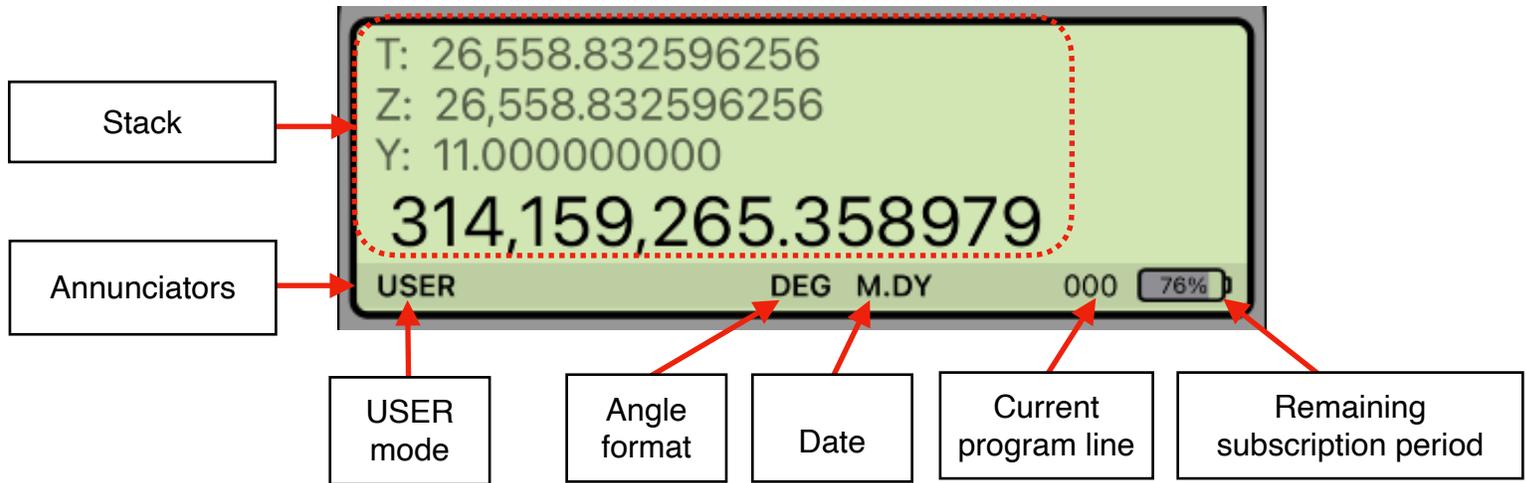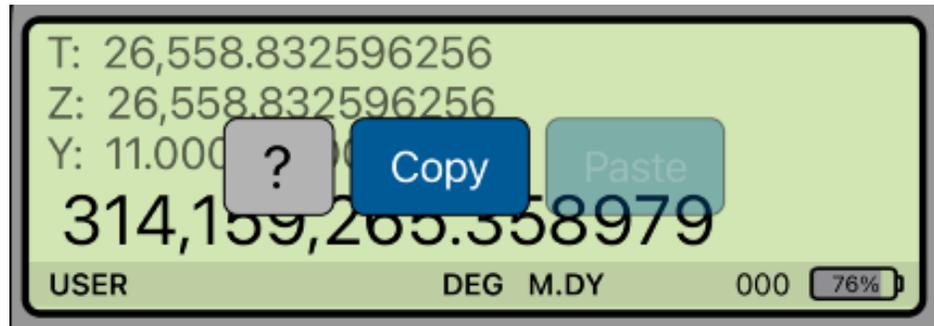| Statistics Menu	
> One Variable:	Statistics calculations over one (Value,Frequency) List of data samples.
Statistics	Statistics calculations over one (Value,Frequency) List of data samples.
Curve Fitting	Applies a regression model to fit a curve from two (Value,Frequency) List of data samples.
Data Editor	Opens an editor to create a "(Value, Frequency) List".
> Two Variables:	Statistic calculations over two (X-value, Y-value) List of data samples.
Load (X,Y) Data	Load the statistics summary (R0 to R5) calculated from a previously created "(X,Y) List" of data samples.
Statistics	Shows the Statistic Calculation view to perform calculations over a previously created "(X,Y) List" of data samples.
Curve Fitting	Shows the Curve Fitting view to apply different regression models to an "(X,Y) List" data samples.
Data Editor	Opens an editor to create a "(X,Y) List".
Probability	Calculates combinations, permutations and probability densities and lower-tail cumulative probability of selected distribution.

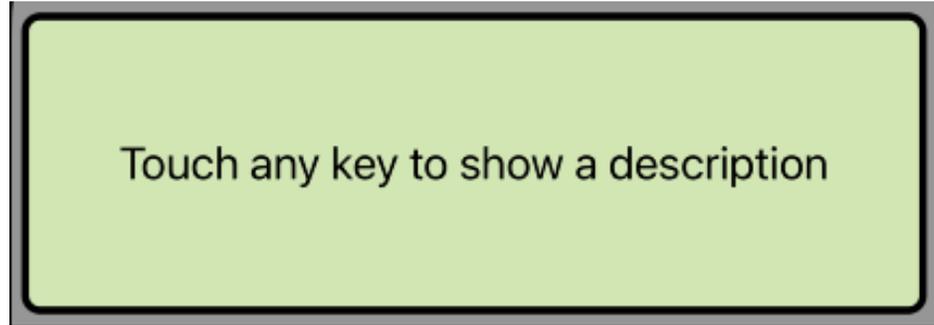| Program Menu	
New	Clears the program memory and shows the Program Editor.
> Load Program	Load a previously saved program in the Program Editor.
Program Editor	Opens the Program Editor view to create or edit programs.
Solver Menu	
Solver	Solve arbitrary algebraic equations entered and saved in the equation editor and creates a menu with all the equation variables to solve any of them.
Utilities Menu	
General Settings	Shows a view to customize the calculator to your preference.
Memory Content	Shows a view to see all memory content and backup or restore it.
Help Documents	Shows the help view to learn by example about all the calculator's menus.
> Editors	Shows a submenu to select one of the different data editors.
(D,T) List	Opens an editor to create a "(Date, Transaction) List".
(D,X) List	Opens an editor to create a "(Date, Value) List".
(X,N) List	Opens an editor to create a "(Value, Frequency) List".
(X,Y) List	Opens an editor to create a "(X,Y) List".
Program	Opens the program editor to create or edit a program.
Solver Equation	Opens an editor to create or edit equation used by the Solver.
Units Conversion	Opens an editor to create or edit physical units.

Normal Calculator Display

Stack

Annunciators

USER mode

Angle format

Date

Current program line

Remaining subscription period

Touching the display at any time brings up the Help-Copy-Paste buttons to the front. There you can "Copy" the displayed number or "Paste" previously copied one.

The "**?**" button turn on the quick help for a short description of any keyboard or menu button.

Program Mode Display

When the Program Mode is set (**G P/R**) the display changes to show the Program Editor view (see the Program item of the Utilities / Editors menu):

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Portrait Orientation

Landscape Orientation (Left Handed Setting ON)

You can swipe over the display to scroll the program listing to the desire location, and tap in any line to select it and edit as necessary.

Since the calculator is inspired in the real **HP-11C**, we strongly recommend that you obtain the real calculator Owner's Manual available in internet and review all the help topics selecting them from the top buttons in the **HELP** view (tap **[f] [HELP]**).

For further information and support go to www.rlmtools.com **or send an email to** support@rlmtools.com