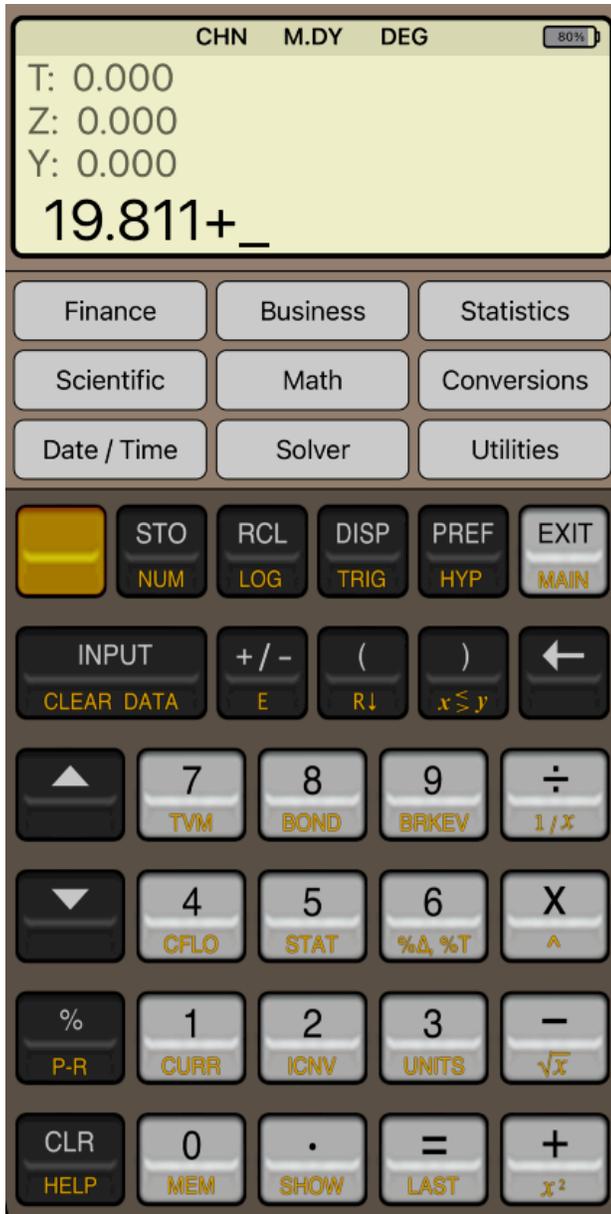


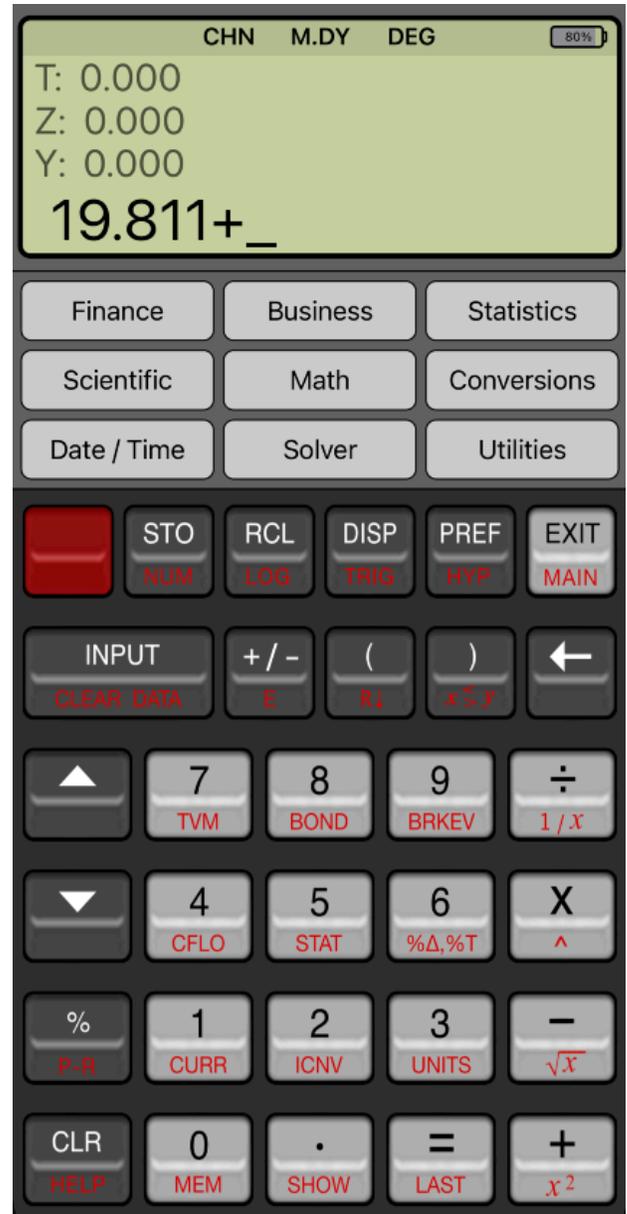
General Overview

The RLM-19BX calculator application is an extensive set of tools and enhancements inspired in the real HP-19B calculator series made by Hewlett Packard Corp.

The first “HP-19BII” calculator was designed and introduced by Hewlett Packard in 1988 and it was a pocket business calculator with algebraic and RPN logic. It was the most powerful business calculator at that time, in a folding case with alphanumeric keyboard and menus that contains most of its functions.



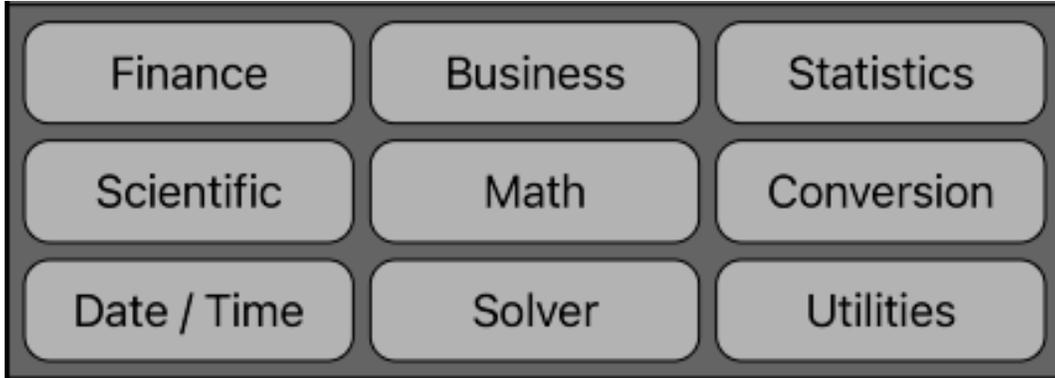
Old Skin



New Skin

Since the calculator is inspired in the real world **HP-19BII**, 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 button in the **HELP** view.

Main Menu



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: $\text{Profit} = (\text{Price} - \text{Var.Cost}) \cdot \text{Units} - \text{Fix.Cost}$
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.

Statistics Menu

Probability	Calculates combinations, permutations and probability densities and lower-tail cumulative probability of selected distribution.
One-Variable Statistics	Statistics calculations over one (Value,Frequency) List of data samples.
Two-Variable Statistics	Statistic calculations over two (Value,Frequency) List of data samples assigning one to the 'X' and the other 'Y' variables.
Curve Fitting	Applies a regression model to fit a curve from two (Value,Frequency) List of data samples.

Scientific Menu

Complex Numbers	Special menus to perform operations and functions over complex numbers in cartesian or polar (phasor) form.
Triangle Solution	Solves a two dimensional triangle with known values according to AAS, ASA, SAS,SSA or SSS models.
Spherical Triangle	Solves a triangle in the surface of a sphere of radius 'R' and known values according to AAA, AAS, ASA, SAS, SSA or SSS models.
3D Vectors	Special menus to perform operations and functions over 3D vectors in cartesian, spherical or cylindrical coordinates.
Universal Constants	Inputs the value of a selected universal constant from the NIST-CODATA database.

Math Menu

Hyperbolic	Applies Hyperbolic functions to the displayed number.
Logarithm	Applies Logarithmic functions to the displayed number.
Number Alteration	Applies common number alteration functions.
Trigonometry	Applies Trigonometric functions to the displayed number.

Conversion Menu

Angles	Calculates angle conversion between decimal degrees, radians, gradians, degree-minute-second and slope percent units.
Currencies	Calculates a currency exchange between two selected world currencies and common crypto currencies.
Interest Rates	Calculates nominal and effective interest rates using either periodic or continuous compounding.
Polar-Rectangular	Performs conversion between rectangular (X,Y) coordinates and polar (R, \emptyset) coordinates.
Units	Calculates physical units conversion within a selected units category.

Date / Time Menu

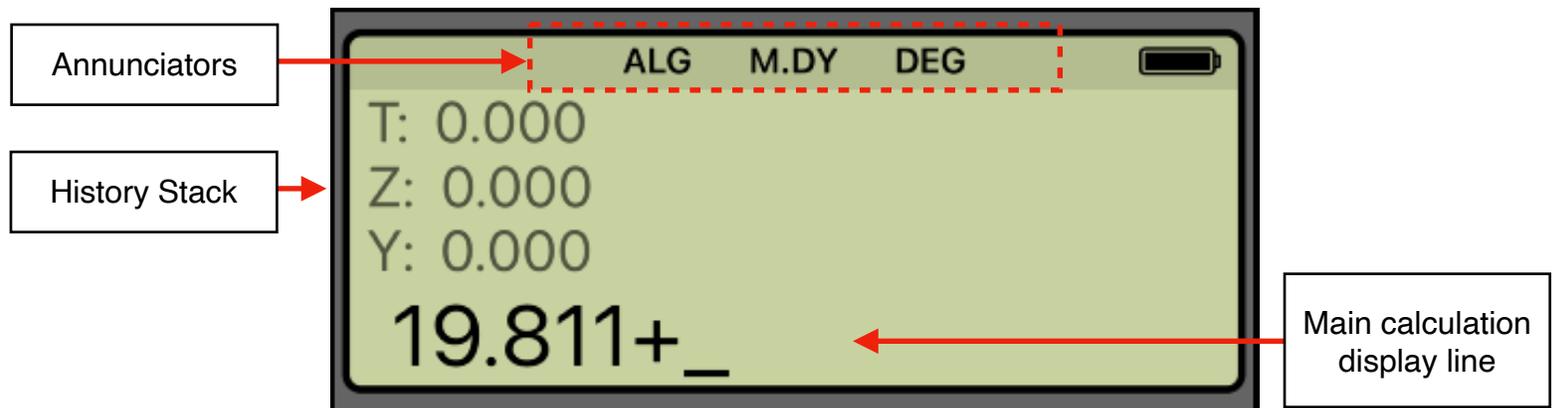
Calculates Date and Time calculations with all values at sight.

Solver Menu

Solve arbitrary algebraic equations entered and saved in the **Equation Editor** and creates a menu with all the equation variables to solve for 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.
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.
(Date, Transaction) List	Opens the "Date-Transaction" list editor to create or edit the data used by the Account Balance menu
(Date, Value) List	Opens the "Date-Transaction" list editor to create or edit the data used by the Account Balance menu.
(Value, Frequency) List	Opens the "Value-Frequency" list editor to create or edit the data used by the Equal Periods Cash Flows & Statistics menu.
Solver Equation	Opens the "Solver Equation" editor to create or edit the equation used by the Solver menu
Units Database	Opens the "Units" editor to create or edit units and categories used by the Units Conversion menu

Calculator Display



The RLM-19BX calculator's display has three areas: the annunciators area, the history stack area and the main calculation.

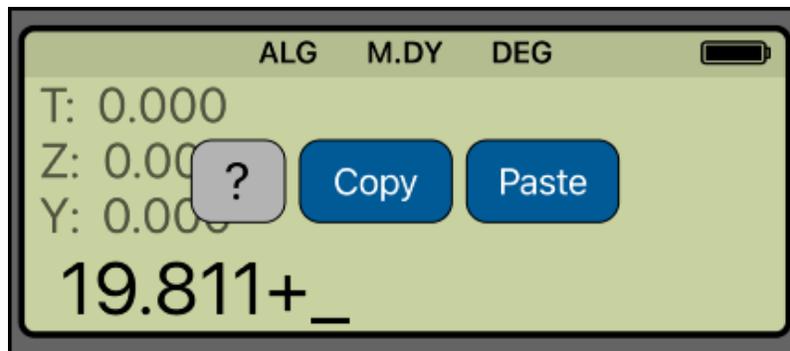
Annunciators: Show the current status of the calculators:

Display Annunciators	
	When shown, the shift functions are active in the keyboard.
ALG CHN RPN	Algebraic operation logic ($1 + 2 \times 3 = 7$). Chain operation logic ($1 + 2 \times 3 = 9$). Reverse-Polish-Notation operation logic.
M.DY D.MY Y.MD	Date format set to Month-Day-Year (MM.DDYYYY). Date format set to Day-Month-Year (DD.MMYYYY). Date format set to Year-Month-Day (YYYY.MMDD).
DEG RAD GRD DMS $\frac{\Delta}{\%}$	Current angles unit set to Decimal Degrees. Current angles unit set to Radians. Current angles unit set to Gradians. Current angles unit set to Degrees-Minutes-Seconds. Current angles unit set to Slope Percent.

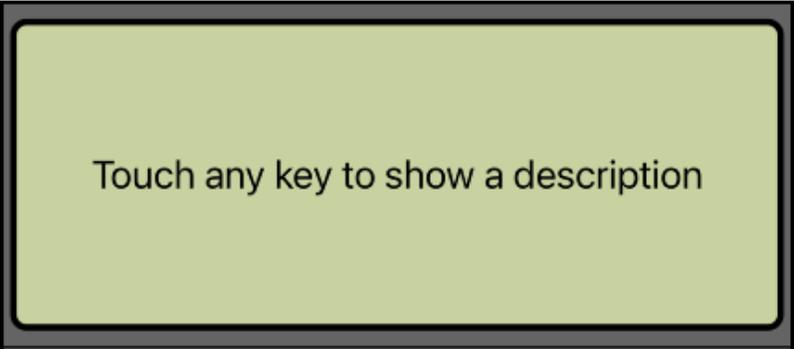
History Stack area: At the left shows the value in the stack register or a relevant message depending of the calculation performed. At the right shows the “Virtual Battery” status indicating your auto renewable subscription (full “battery” last for 30 days of usage).

Main Calculation line: Shows the current entered number, a calculation in progress or a calculation result.

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 hint for a short description of any keyboard or menu button.



Touch any key to show a description

For further information and support go to...

www.rlmttools.com

or send an email to...

support@rlmttools.com

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