

# VisualCalc Pro

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## Introduction

VisualCalc Pro is an advanced programmable scientific calculator for Palm OS with complex, array and matrix operations and graphing.

VisualCalc Pro is designed to run on Palm OS™ handhelds running Palm OS 5.x.

See [help-en.htm](#) for full program description and function reference.

## Installation

The VisualCalc Pro download file is a Zip file that contains all the necessary files, to be installed on your Palm OS device, and related documentation files. Open this file on your desktop computer and extract all files to some directory, as for example "c:\VisualCalc\".


Once decompressed, use the *Palm Quick Install* to transfer the VisualCalc Pro program onto your handheld:

1. Start the *Palm Quick Install* program.
2. In the "User:" drop down list, select the user name that corresponds to your handheld.
3. Click the "Add..." button.
4. Navigate to the directory where you decompressed the VisualCalc Pro files ("c:\VisualCalc\") and select the VisualCalc.prc file, and then click the "Open" button.
5. Synchronize your handheld with the desktop to transfer the .prc file onto your handheld.
6. After synchronizing, the VisualCalc icon appears on your Palm handheld.
7. Register the VisualCalc Pro program.

## Registration

In order to work with VisualCalc Pro program, you need to register it. Full registration details for this software you can find on the distribution website. In order to receive the correct registration code, it is very important you provide, during the registration process, the same Palm user name

you have in your handheld. This name appears in the "HotSync name:" field on the registration form:

A screenshot of a registration dialog box titled "Registration". It contains two input fields: "HotSync name:" with a dotted line below it, and "Enter your registration code:" with a dotted line below it showing the format "00000-00000-00000-0000-000". Below these fields is a note: "Note: HotSync name and registration code are case sensitive!". At the bottom are "OK" and "Cancel" buttons.

**Registration**

HotSync name:  
HotSync Name.....

Enter your registration code:  
00000-00000-00000-0000-000.....

Note:  
HotSync name and registration  
code are case sensitive!

OK Cancel

Note: HotSync name and registration code are case sensitive!

Once registering the software, you will receive a registration code. Enter with the registration code exactly as it appears in the email. Saving the registration code in a safe place is a good idea, in case you need to reinstall the software.

## What's new

Legend:

- [+] - new functionality is added
- [\*] - the behaviour of existing function is changed
- [!] - the bug is fixed

### v. 2.5

1. [+] [integrated debugger](#) for stepping through programs
2. [+] [options](#) controlling rounding results - Zero tolerance, Complex tolerance
3. [+] arbitrary expressions in [graphs](#)

### v. 2.4

1. [+] [date-time calculations](#)
2. [+] [reading and writing CSV-files](#) - functions [csvread\(\)](#), [csvwrite\(\)](#)
3. [+] configurable format of individual variables on [the result screen](#)
4. [\*] the [use\(\)](#) function accepts expression names with spaces
5. [+] access to global variables from within functions
6. [\*] list of local function variables for select (the button "V")
7. [+] inverse hyperbolic functions [asinh\(\)](#), [acosh\(\)](#), [atanh\(\)](#)
8. [+] function [rep\(\)](#) - create an array or a matrix with a given number of identical elements
9. [+] function [find\(\)](#) - find indices of nonzero elements

### v. 2.3

1. [+] function [fzero\(\)](#) - find a zero of a function
2. [+] function [fmin\(\)](#) - find the local minimum of a function

3. [+] [search](#) for the specified value on the graph, compute the minimum and maximum, derivative, intersection of the graphs
4. [+] [return](#) to the previous view of the graph
5. [+] text labels on the graph grid
6. [+] [import/export](#) a text of expressions from/to the Memo Pad
7. [+] [exchange](#) of expressions between devices
8. [+] Memory info - statistics of used dynamic memory

## v. 2. 2

1. [+] [3D surface graphs](#)
2. [+] [use of the text](#) of other expression: function [use](#)
3. [+] categories of expressions
4. [+] [global find](#) in text and name of expression
5. [+] menu item "Go back" - return to the previous expression

## v. 2. 1

1. [+] [derivatives, integrals, interpolation](#): functions [df](#), [quad](#), [quadr](#), [polint](#)
2. [+] arithmetic sequence [seq](#)
3. [+] functions [all](#), [any](#)
4. [+] added operations  $\leq$   $\geq$   $\leq=$   $\geq=$  for arrays and matrices
5. [+] [atan\(y, x\)](#) - arctangent of y / x
6. [+] [controlling the graph](#) by stylus: modes Cursor, Zoom in, Zoom out, Maximize, Proportional, Move
7. [+] ["Persistent cursor"](#) mode
8. [+] cursor position can be set [numerically](#)
9. [+] new kinds of [array plots](#): MarkedLine, Marker
10. [\*] operators  $\equiv$  and  $\neq$  are changed when comparing arrays and matrices. Now they return object of the same size as operands. Compared objects should be the identical size.
11. [!] the bug is corrected in array plots BarH, BarStackH with small values

## Evaluation version

For evaluation purposes, free VisualCalc version is included in Zip package. You can find it in the "c:\VisualCalc\Demo\" directory. Free VisualCalc version requires the library MathLib.prc to run.

Advantages of registered VisualCalc Pro over the free version:

- Optimized ARM-code speeds calculations and construction of graphs up to 15 times
- User-defined functions
- Various array plots: line, dot, bar (vertical and horizontal, stacked)
- 3D surface graphs
- Reading and writing CSV-files
- MathLib library does not required

# Support

Support for VisualCalc Pro is provided via email.

Please send any questions or comments to [visualcalc@gmail.com](mailto:visualcalc@gmail.com) including the following information:

- Your name
- Your e-mail address
- Program version
- The brand and model of your handheld
- If you're reporting a bug in the software, please include the steps needed to recreate the problem

## License Agreement

1. All copyrights to VisualCalc Pro are exclusively owned by the author - Andrey Lepihov.
2. In order to work with VisualCalc Pro program, you need to register it.
3. Once registered, the user is granted a non-exclusive license to use VisualCalc Pro on one device, for any legal purpose, at a time.
4. VisualCalc Pro IS DISTRIBUTED "AS IS". NO WARRANTY OF ANY KIND IS EXPRESSED OR IMPLIED. YOU USE AT YOUR OWN RISK. THE AUTHOR WILL NOT BE LIABLE FOR DATA LOSS, DAMAGES, LOSS OF PROFITS OR ANY OTHER KIND OF LOSS WHILE USING OR MISUSING THIS SOFTWARE.
5. You may not use, copy, emulate, clone, rent, lease, sell, modify, decompile, disassemble, otherwise reverse engineer, or transfer the licensed program, or any subset of the licensed program, except as provided for in this agreement. Any such unauthorized use shall result in immediate and automatic termination of this license and may result in criminal and/or civil prosecution.
6. Installing and using VisualCalc Pro signifies acceptance of these terms and conditions of the license.
7. If you do not agree with the terms of this license, you must remove VisualCalc Pro files from your device and cease to use the product.

Thank you for using VisualCalc Pro.