



NiceCalc3

User's Guide

NiceCalc3 v1.2

Paper version: 2.0

Contents

Introduction.....	3
Application's compatibility	4
Downloading, installing/uninstalling the application	5
Basic features.....	6
Calculation mode	6
Localization and languages support.....	7
Application management	8
Keys description	8
Buttons customization.....	8
Indication and notations.....	10
Stylization	11
Menu and settings description	12
Clipboard	12
Angle in	12
Numeric system	12
Calc mode.....	12
Round result to	12
Control	13
Help.....	13
Exit	13
NiceCalc3 basic computation examples	14
Basic math.....	14
Percentage calculation.....	14
Memory usage	15

Power functions	15
Trigonometric functions	15
Angle usage.....	16
Logarithmic functions.....	16
Precedence operations.....	16
Numeric systems usage.....	17
NiceCalc3 usage terms and conditions	18
Support and Contacts	19
License agreement	20

Introduction

We appreciate your interest in the NiceCalc3 application.

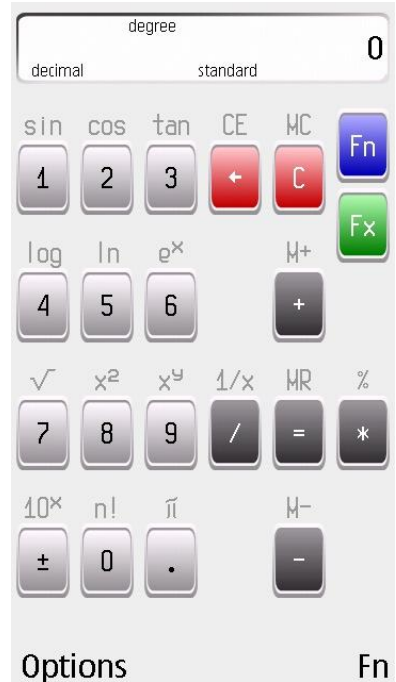
NiceCalc3 was specially designed for convergent devices powered by Symbian™ OS.

This application will turn your handheld into a powerful scientific calculator.

Main application's advantages over the rest S60 calculators are:

- Fast "just-one-click" interface
- Broad set of math functions
- 4 numeric systems
- Clipboard support

NiceCalc3 is a tool for both elementary and scientific calculations.



We made an attempt to rationalize the application and combine maximum features with handy interface. Application was designed following the non-intervention approach to the usual mobile handheld usage policies.

Application's compatibility

The application is compatible with mobile devices with Symbian™ OS v.9.x. management, S60™ interfaces supporting 176x208, 208x208, 320x240, 240x320, 352x416, 352x800 pixels screen resolution with minimum of 4096 color spectrum.

To obtain full information about devices compatibility (including device indexes), please refer to developer's official web-site: <http://very-soft.com>

Downloading, installing/uninstalling the application

NiceCalc3 is available on the OVI store.

To avoid penetration of your mobile handheld by virus and other malicious software DO NOT COPY OR INSTALL applications hosted on UNTRUSTED web sites or sent to you by unknown persons. We recommend downloading NiceCalc3 on OVI store.

To uninstall the NiceCalc3 close it through “Exit” item in the options menu. Open the standard “Application Manager” and choose NiceCalc3. Press the “uninstall” option to uninstall the application.

Please read carefully program’s “License Agreement” which is displayed on the screen of your mobile handheld during installation process. If you are not agreed with license conditions you must cancel the installation and delete all application copies from available storages. You can email all your complaints and suggestions for licensing conditions modification and corresponding juridical basis to: support@very-soft.com Full text of the “License Agreement” can be found in the “License Agreement” chapter.

Basic features

Main application features:

- Easy and quick “just-in-click” interface
- 4 numeric systems support
- Double-precision calculations up to 20 digits
- Maximal positive number: $9.(999)E+99$
- Maximal negative number: $1E-99$
- Three angle calculations support
- Memory, current angle, function, numeric system indication
- Keystrokes animation
- Automatic rounding support
- Clipboard support
- Operations order support
- Standard and scientific modes support



Calculation mode

We’ve implemented two calculation approaches in the NiceCalc3:

1. “Standard” uses standard computation logic, when all operations are calculated one by one.
2. “Scientific” follows the operations precedence.

Operation \ Result	Elementary	Scientific
$2 + 3 \times 4$	20	14
$9 - 3 \times 2$	12	3
$4 / 2 + 5 \times 3$	21	17

Localization and languages support

NiceCalc3 interface is very flexible and supports several languages.

Languages included in the application distributive:

- English (default)
- Russian

We are always glad to add new languages support in every our application to meet your wishes. If you want to help us in application localization email us: support@very-soft.com



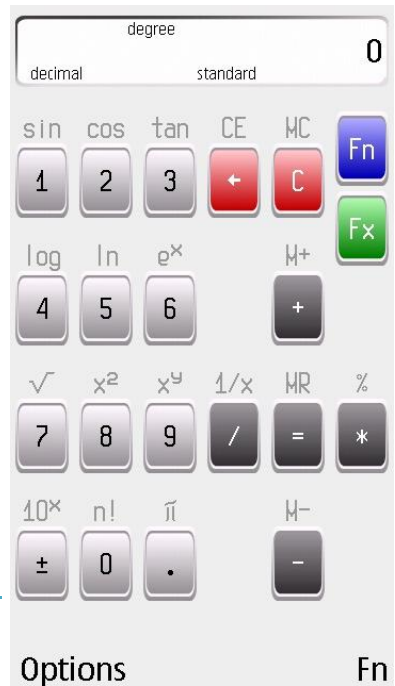
Application management

NiceCalc3 handy and intuitive interface, which is based on two-levelled input system, provides calculation quickness. You can switch between digits or operations depicted inside the buttons by pressing “Fn” and “Fx” buttons.

If you want to change any application’s setting open “Options” menu and select “Settings” item. Select the desirable item and change it.

Keys description

Key	Description
Fn	Switch between basic and subsidiary set of digits and functions
Fx	Switch between functions
C	Clear display Memory cell won't be cleared!
CE	Cancel last entered argument with opportunity to enter new one and continue calculations
M+	Save number in memory cell
MR	Use number stored in memory cell
MC	Clear memory cell



Almost all hardware buttons of your mobile device can be used and bind.

Buttons customization

NiceCalc3 allows customizing controls to provide personalization and flexibility for your calculations. Just open “Options” menu and select “Settings” item, in appeared window select “Keys” tab.

Select a control you want to change, press "Options", select "Change" item and press on desirable hardware button when "Press new key" text appears.

If you need to restore default controls settings you can use "Default keyset" option in the "Options" menu.

Not all hardware buttons can be bind!

If the "Press any key" notice is still on the screen after you have pressed desirable button, that button cannot be used in NiceCalc3.



Indication and notations

List of indicators that are displayed on the NiceCalc3 screen:

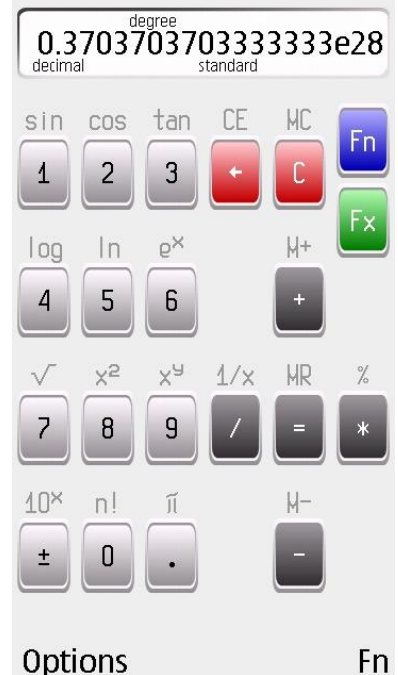
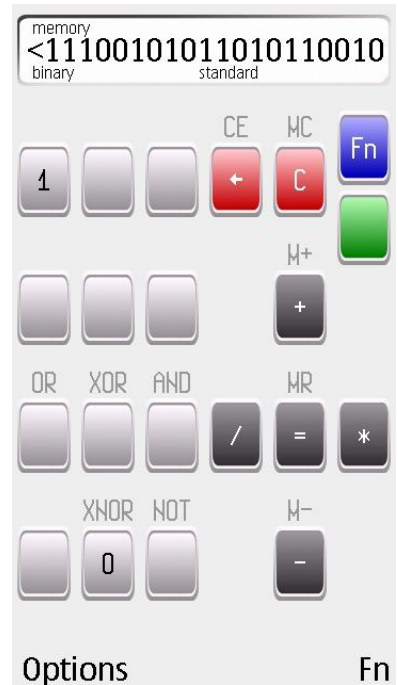
Item	Description
degree, radian, grad	Current trigonometry function
decimal, octal, hexadecimal, binary	Current numeric system
memory	Indication of the current memory state
function	Indication of the current function mode
overflow	Indication of the overflow
<	Indication of the big number, that could not be displayed

If intermediate or final result exceeds the possible displayed number on the NiceCalc3 screen, it will be automatically converted to the exponential count (decimal numeric system only).

Conversion example: "0.12e20" stands for
12 000 000 000 000 000 000.

NiceCalc3 provides comfortable control and precise arguments input graphically animating button pressings.

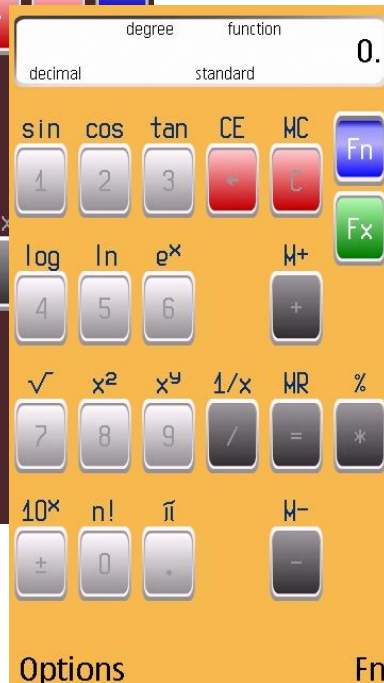
When the "Fn" button is pressed, all possible arguments for computing are highlighted.



Stylization

You can customize NiceCalc3 visual interface through next steps:

1. Enter "Options" menu;
2. Select "Settings" item;
3. Choose "Panel style"
4. Select: Dark, Bright or Gravel;
5. Press "OK" button.



Menu and settings description

Clipboard

Use clipboard to fasten your calculations:

- **Copy** – copy number to clipboard
- **Paste** – paste number from clipboard

Angle in...

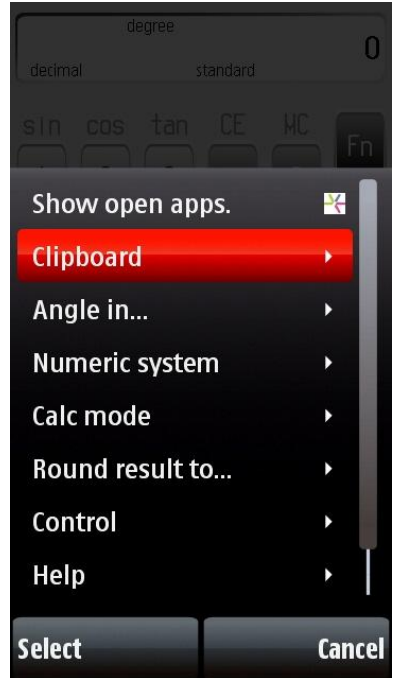
Calculate angles in various modes:

- **Degrees**
- **Radians**
- **Grads**

Numeric system

Fast switch between numeric systems:

- **decimal**
- **hexadecimal**
- **octal**
- **binary**



Entered number will be automatically converted to specified numeric system.

Calc mode

Switch between calculation approaches:

- **Standard**
- **Scientific**

Round result to...

Automatically round calculation results to:

- 1 digit
- 2 digits
- 3 digits
- 4 digits
- 5 digits
- full result

Control

Application control:

- **Rotate screen** – rotate NiceCalc3 screen
- **Settings** – open application settings

Help

Help topics:

- **Manual** – open help manual
- **About NiceCalc3** – open screen with NiceCalc3 general information

If you see “No PDF reader found” error message, you need to install any mobile PDF reader.

Exit

Full exit from the NiceCalc3.

NiceCalc3 basic computation examples

Demonstrated examples can be reproduced using keyset with “default” value. If one changed keyboard control buttons pressing order will differ. In the demonstrated examples certain mobile device models were used. Buttons of your handheld could have different visual style.

Basic math

Operation	Result	Key pressings order
$34 + 98$	132	
$32 - 95$	-63	
546×3	1638	
$64 / 5$	12,8	
$-38 + 48$	10	

Percentage calculation

Operation	Result	Key pressings order
26% from 1500	390	
3620 increased on 15 %	4163	
4750 decreased on 4%	4560	

Memory usage

Operation	Result	Key pressings order
85 + 15 and add result to memory	100	8 tuv, 5 jkl, $\frac{1}{\square}$, 1 \square , 5 jkl, \square , \rightarrow $\frac{1}{\square}$
Memory + 75	175	7 pqrs, 5 jkl, \rightarrow , \square
Memory \times 5	875	\rightarrow , \square , \rightarrow , 5 jkl, \square

Power functions

Operation	Result	Key pressings order
$6^2 + 4^3$	100	6 mno, \rightarrow , 9 wxyz, 2 abc, $\frac{1}{\square}$, 4 ghi \rightarrow , 9 wxyz, 3 def, \square
$10^3 \times 1/1000000$	0.001	1 \square , 0 \square , \rightarrow , 9 wxyz, 3 def, \rightarrow 1 \square , \leftarrow , 1 \square , 0 \square , 0 \square , 0 \square 0 \square , 0 \square , 0 \square , \square

Trigonometric functions

Operation	Result	Key pressings order
sin(30)	0,5	3 def, 0 \square , \rightarrow , 1 \square
cos(0)	1	\rightarrow , 2 abc
cot(89)	0,01745	8 tuv, 9 wxyz, \rightarrow , \square , 4 ghi

Angle usage

Operation	Result	Key pressings order
$\sin(30)$ in degrees	0,5	Options->Angle in...->Degrees
$\sin(30)$ in radians	-0.988	Options->Angle in...->Radians
$\sin(30)$ in grads	0,454	Options->Angle in...->Grads

Logarithmic functions

Operation	Result	Key pressings order
$\log 150$	2,17609	
e^{10}	22026,47	
$\ln(1/e^3)$	-3	

Precedence operations

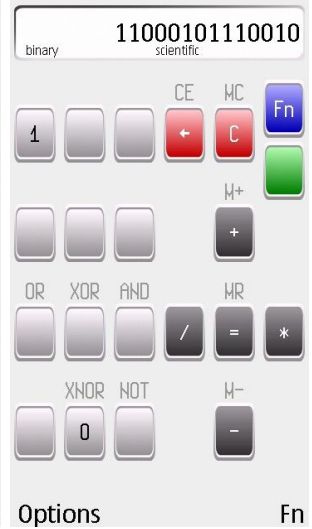
Operation	Result	Key pressings order
$29 + 98 \times 6 + 5^2 / (-15)$	615,(3)	

Numeric systems usage

NiceCalc3 supports decimal, hexadecimal, octal and binary numeric systems. They can be activated through the “**Numeric system**” menu.

In binary numeric system logical operations are available: OR, XOR, AND
All inappropriate symbols in binary, octal, hexadecimal numeric systems are blocked.

Numeric systems examples (“12658” in all systems):



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