

## Our customers...



## NL5 License

Without a license, NL5 operates in a **Demo** mode. All full-function features are available, with the total number of components in the schematic limited to **20**.

A variety of licenses with different limitations and protection methods are available free of charge or for purchase\*:

Students and education	Free
1 month trial	Free
1 Year Single PC	\$99
Single PC	\$199
Network	\$499
Personal	\$499

Order license at [nl5.sidelinesoft.com](http://nl5.sidelinesoft.com)

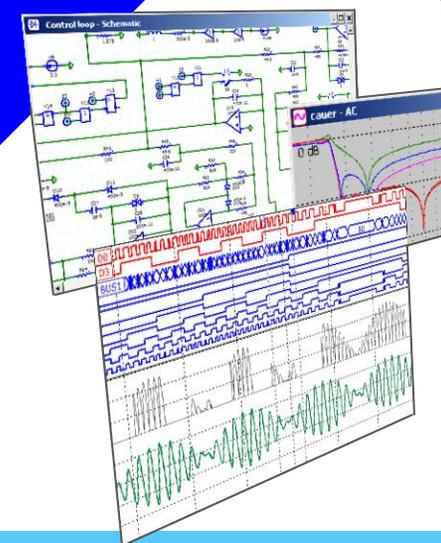
\* Prices are subject to change without notice.



# NL5

## Circuit Simulator

ideal  
simulation  
for real  
design



## ...and what they say about NL5

*It was a matter of hours to discover the powerfulness behind the simplicity of NL5...*

*...Just tried it and never wanted to return to SPICE again. All convergence problems were gone and speed increased dramatically!*

*My opinion is that NL5 is the best program for simulation of any types of power stages...*

*...NL5 allows me to focus more time on product development activities and less time on solving SPICE simulation convergence problems...*

*A circuit simulator with a plotting tool that doesn't make you want to export the data and use another tool!*

*...NL5 is a circuit simulator that just works. It is a rare example of a program that is both easy to get started on and does not break down when your model starts to get complicated.*

... read more at [nl5.sidelinesoft.com](http://nl5.sidelinesoft.com)

## More Sidelinesoft products



### idealCircuit

Simple analog circuit simulator working with true ideal components



### ideal-Z

Simple impedance calculator with graphical schematic entry.



sidelinesoft

[sidelinesoft.com](http://sidelinesoft.com)

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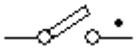


[nl5.sidelinesoft.com](http://nl5.sidelinesoft.com)

NL5 is an analog circuit simulator working with **ideal** and piecewise-linear components.

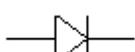
• **Ideal components**

**switch**



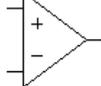
closed:  $R = 0$   
open:  $R = \infty$

**diode**



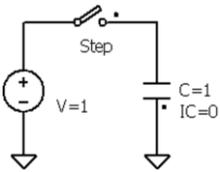
closed:  $I = 0$   
open:  $V = \text{const}$

**amplifier**



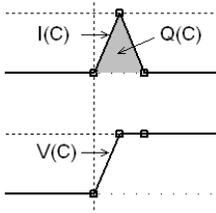
gain =  $\infty$

• **Instantaneous switching**



An ideal switch in NL5 has instantaneous switching time. NL5 is able to simulate processes where infinitely short current and voltage pulses with infinite amplitude may occur.

Such a pulse is displayed in NL5 as a triangle pulse which exists only at one calculation step, and its area satisfies charge or magnetic flux conservation law.



• **With ideal components, you can:**

- iterate design ideas and prove a concept of a design prior to detailed analysis;
- separate actual schematic issues from inevitable errors of simulation algorithms, methods, and models;
- obtain reliable preliminary results very fast.

**product development**

