

Table of Unit Correspondence

The values of various physical quantities in the simulation space are not necessarily identical with the actual values of these quantities in the physical space. For example, the electrons move with much slower speeds on the microscopic representation than in reality inside the conductor, in order to be able to display them. So when the results are exported, the value of a quantity in the simulation they must correspond to their actual value. This correspondence is carried out in order the values in the graphs or in the output file to represent actual values. The following table lists the actual values and the units of measurement of a quantity corresponding to **one unit** of the same quantity within the simulation and the internal mathematical calculations that accompany it.

Quantity, <i>Symbol</i>	Value, Unit of Measurement
Kinetic Energy, K	0,0413857 eV
Velocity, v	$1,205705686 \cdot 10^5$ m/s
Photocurrent Intensity, I_c	1 μ A
Time, t	0,1 s
Light Frequency, f	10 THz
Irradiance, E_e	1 W/m ²

The number and unit of measurement with which we multiply each unit of the physical quantity in the internal calculations of the simulation to match to its actual value.