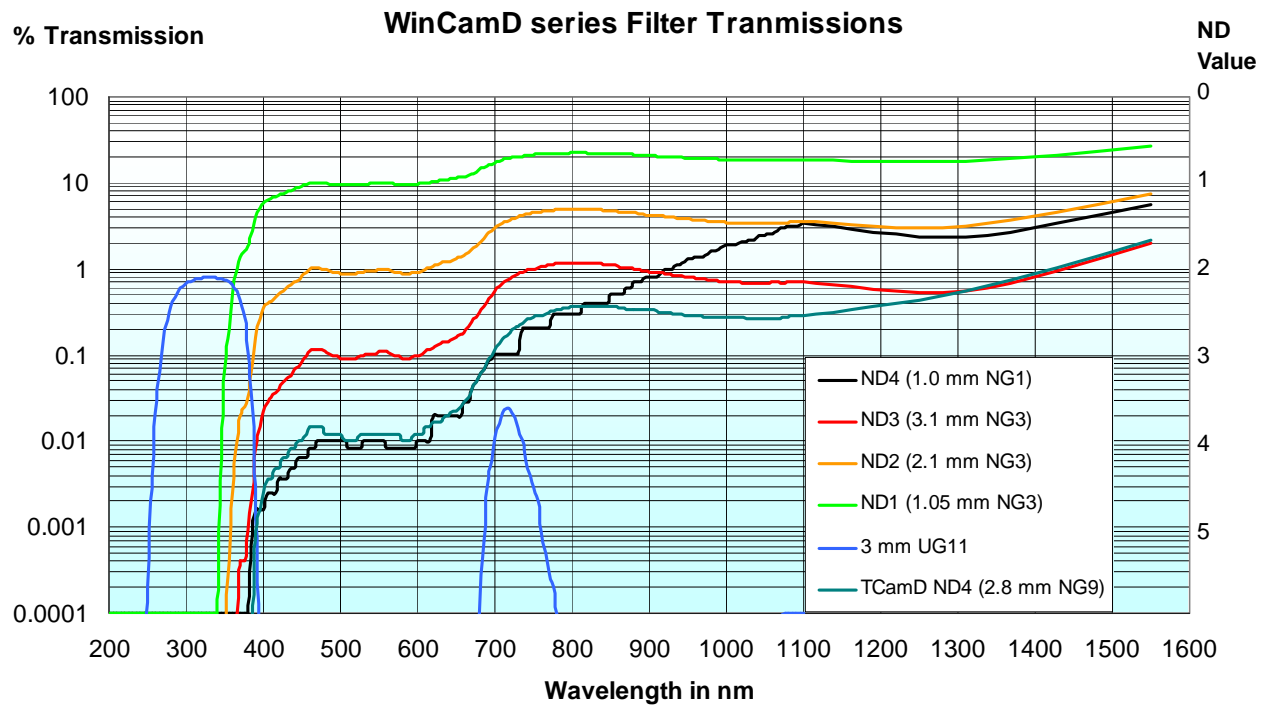


# WinCamD series ND filter transmissions



**ND** = Neutral Density, specified traditionally at the 546.1 nm Hg line.

If **T** is the internal transmission (neglecting surface reflection losses), then:

$$\mathbf{ND} = -\log_{10}T$$

e.g. at  $T = 1\% = 0.01$ , **ND = 2.0**

**ND** is sometimes referred to as **OD** or Optical Density.

**ND** is more correct for these filters since they have a relatively flat response with wavelength compared with the more peaked response of a typical OD filters.

Internal transmission values are correct to an estimated  $\pm 5\%$ .

Front and back surface reflections lose another 8% on the values graphed.

Transmission values between 200 nm and 1100 nm values are derived every 5 nm from Schott program Filter '98, Version 1.1US. Digitization of the ND4 transmission levels is due to the low resolution of the program. Values between 1100 and 1550 nm are based on two points measured at 1310 and 1550nm using an InGaAs detector beamprofiler.