# ms-Time Resolution Raman Spectroscopy Using sCMOS cameras

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Abstract. Raman spectroscopy is a powerful tool to interrogate biological and material systems, as Raman spectra provide a chemical systems, as Raman spectra provide a chemical systems. structures, and measure the distribution of chemical species throughout a sample. The development in detector technologies. Here we discuss the application of a scientific Complementary Metal Oxide Semiconductor (sCMOS) cameras have traditionally found popularity in experimental Raman set ups, the readout architecture of sCMOS cameras provides an attractive detector platform for fast Raman spectroscopy and can outperform CCDs under certain experimental conditions. We highlight the advantages of sCMOS and CCD detectors for Raman spectroscopy, and spectroscopy more generally, using a dual output spectroscopy more generally, using a dual output spectroscopy.

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