

# 4 - Summary

- [Summary of optical spectroscopy methods](#)

# Summary of optical spectroscopy methods

The choice of an optical spectroscopy technique, the measurement setup and the recording of the spectra must be carefully considered, and the following overviews are intended to provide an initial starting point.

	Electron excitation		Vibrational spectroscopy		
	UV/VIS	Fluorescence	NIR	MIR	RAMAN
<b>Signal</b>	Absorption	Emission	Absorption	Absorption	Scattering
<b>Excitation</b>	Halogen, Deuterium (UV)	Discharge lamp, Laser	Halogen	Thermal emitter	Laser
<b>Detector</b>	Si	Si	InGaAs MCT	MCT	Si InGaAs
<b>Sensitivity</b>	high	high	mid	high	mid
<b>Specifics</b>	-	Detector 90° in direction of excitation	-	Special optical materials	longpass filter for excitation blocking
<b>Imaging</b>	simple	higher effort	simple	high effort	higher effort