

s::can

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CONTACT

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中文

Parameters

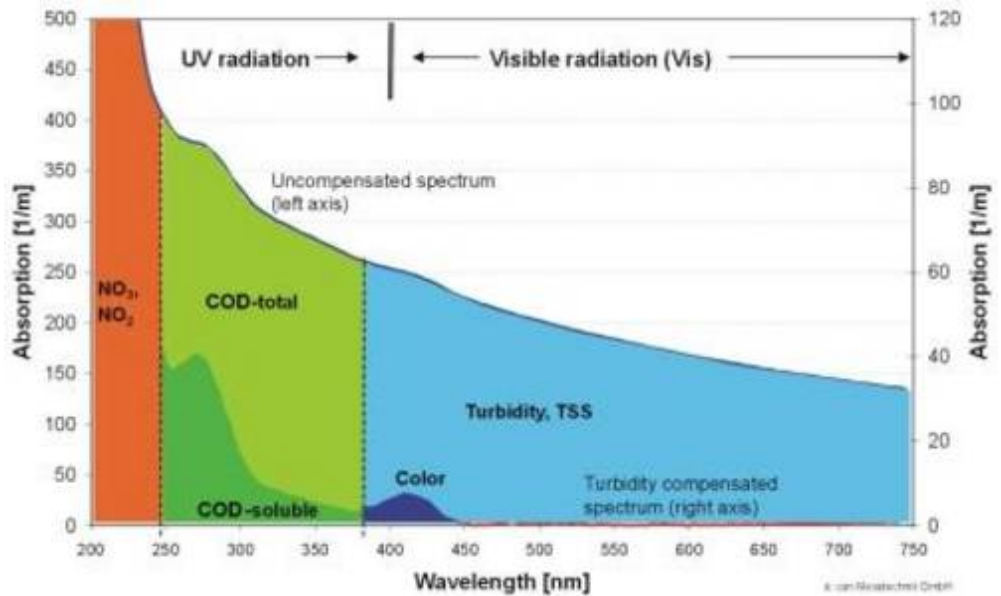
Which parameters do you want to measure?

Find your analyser:

	Method	Number of parameters	NTU/FTU TSS	UV254 UV-COD UV-TOC UV-BOD	NO3	NO2	BTX Phenolics	Hydro- carbon Alarm	Colour	Spectrum OUT	O2, pH Conductivity Temperature NH4
carbo::lyser™ <i>plug & measure</i>	UV-Vis	2	X	X	--	--	--	--	--	--	--
nitro::lyser™ <i>plug & measure</i>	UV-Vis	2	X	--	X	--	--	--	--	--	--
multi::lyser™ <i>plug & measure</i>	UV-Vis	3	X	X	X	--	--	--	--	--	--
spectro::lyser™ <i>flexible & precise</i>	UV-Vis	max. 8	X	X	X	--	--	(X)	X	UV-Vis	X
spectro::lyser™ <i>flexible & precise</i>	UV	max. 8	--	X	X	X	X	X	--	UV	X

Parameters and Measuring Principles

Most of s::can on-line parameters were derived from the UV-Vis spectrum between 200 and 750 nm. The diagram below shows several examples.



Parameters found in the UV-Vis

Organic load: COD, COD_{filt}, TOC, DOC, BOD, UV-254, SAC and other C-parameters are monitored using the spectrophotometric principle.

TSS, Turbidity: spectro-photometrically from 350 to 750 nm; particle size compensated, thus better fit for solid concentrations than any nephelometric turbidity measurement.

Nutrients: NO₃ and NO₂ spectro-photometrically, NH₄ ion-selective or spectro-photometrically, depending on application.

Benzene, Toluene, Xylene, Phenol, many pesticides, and other chromophores: quantification and sometimes also identification by UV enhanced high resolution instrument (spectro::lyser™ only); detection limits down to 10ppb.

Contaminant alarm: spectro-photometrically; highly sensitive and selective new software for the detection of abnormalities in any type of water, down to 10ppb-level (spectro::lyser™ only)

O₂: optical fluorescence / quenching.

pH, Conductivity, Redox potential: "conventional" high quality sensors available for waste water and for clean water.

Sketch outlining the measuring principle of s::can instruments.