

Product Synopsis

eFLUORiX is an experimental mobile lab instrumentation platform, capable of fast and sensitive analysis of liquids by measuring the solution's spectroscopically resolved colorimetric absorbance or fluorescence emission.



Main Features

The present functional prototype enables the rapid quantification by means of visible range spectroscopy of analytes in liquids.

Compared to simpler colorimeters (which use filters), eFLUORiX is specifically built around an optical transmission spectrograph. This allows the application of derivative spectroscopy methods, enabling thus highly sensitive quantification of investigated analytes.

The provided PC-based eFLUORiX software enables the display of measurement data and the quantitative calibration of the measurement task. Classical analytical techniques like spectral peak heights, peak areas and ratios are implemented, allowing an easy calibration of quantities of investigated species.

All basic spectral data can be recorded and accessed by the user for further processing with alternative chemometric tools.

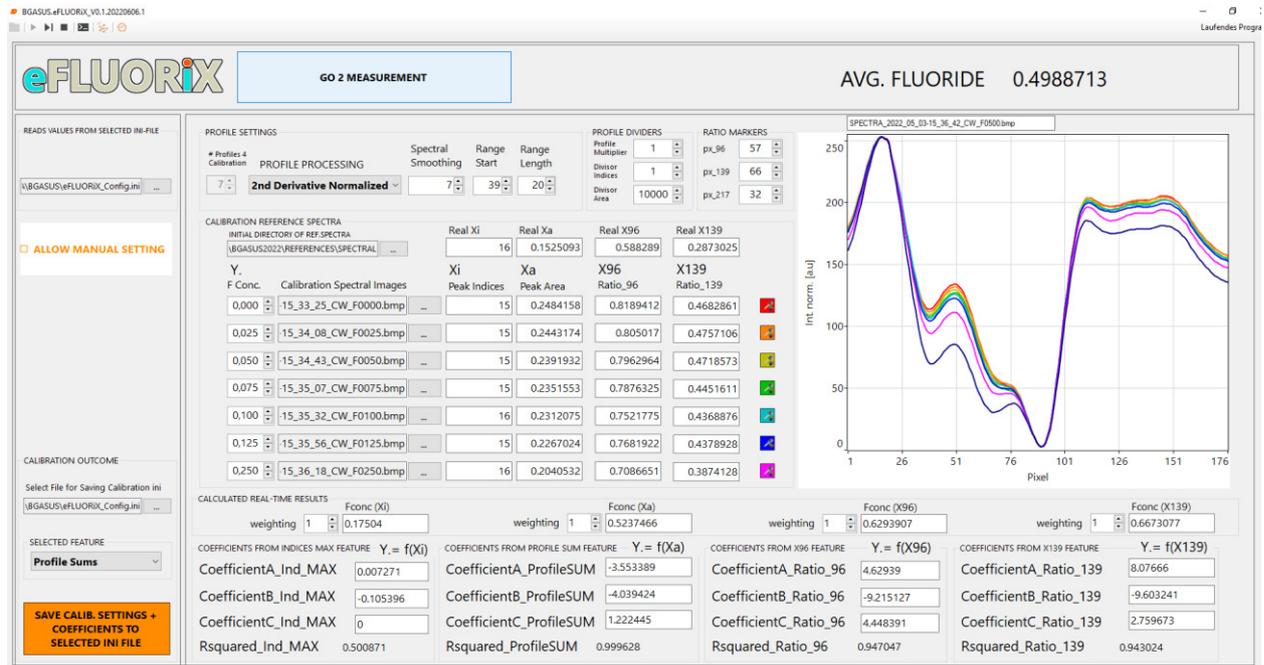
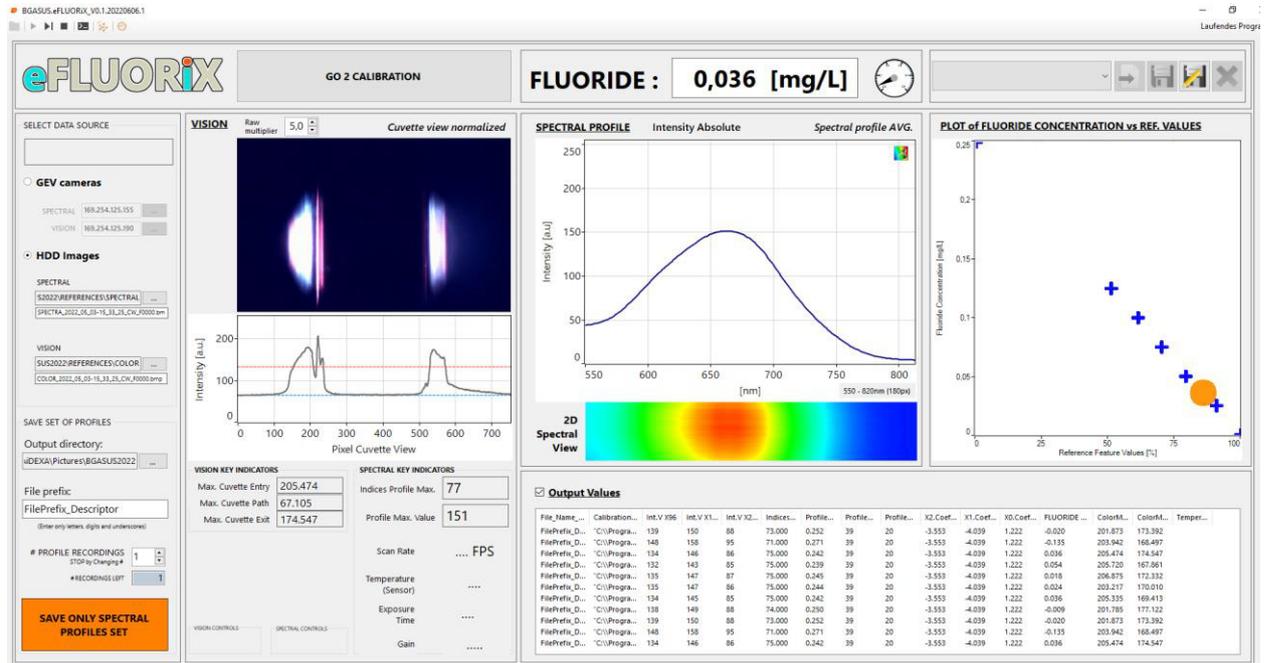
It comes in a robust transportation case, fast to build up and versatile in use. The Windows 10 PC is included and eFLUORiX software is installed.



Specification

Weight:	23kg with case / 15 kg w/o case
Dimensions:	60 x 44 x 26 cm w. case 47 x 30 x 20 cm w/o case
Power supply:	External AC adapter 230W, 100 - 230 Vac / 50-60Hz / 3,5 Amp
Operating temperature:	15 – 25 ° C, non-condensing
Light Source :	CoolWhite 6500 K LED, other on request
Spectrograph:	Transmissive, 15u slit, compound triple prism diffraction
Spectral range:	425 – 820 nm, non-linear
Spectral resolution:	< 1 nm
Liquid vials:	Square 12.5 mm cuvette holder with Z dimension of 8.5mm
Long Pass Filter:	RazorEdge LP03-532RU-25, 538nm + FEHL 550nm, OD6+4
Detector(s):	CMOS, Spectral, IMX226 Color Side View, MT9V022
Data interface:	GigE Vision 1 Gigabit Ethernet
Production:	Austria - 2022
Recommended list price:	15.000,- EURO, net

eFLUORIX – Measurement and Calibration HMI



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