

eFLUORiX

DATASHEET (VERSION 2023)

Product Synopsis

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

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.

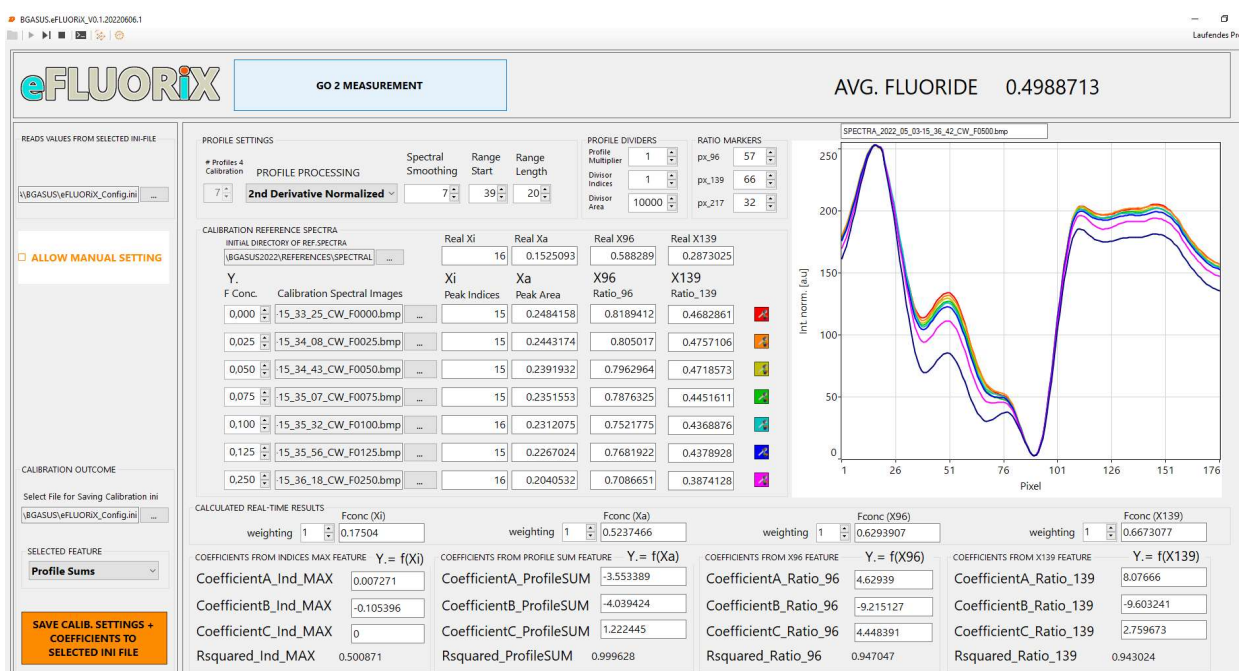
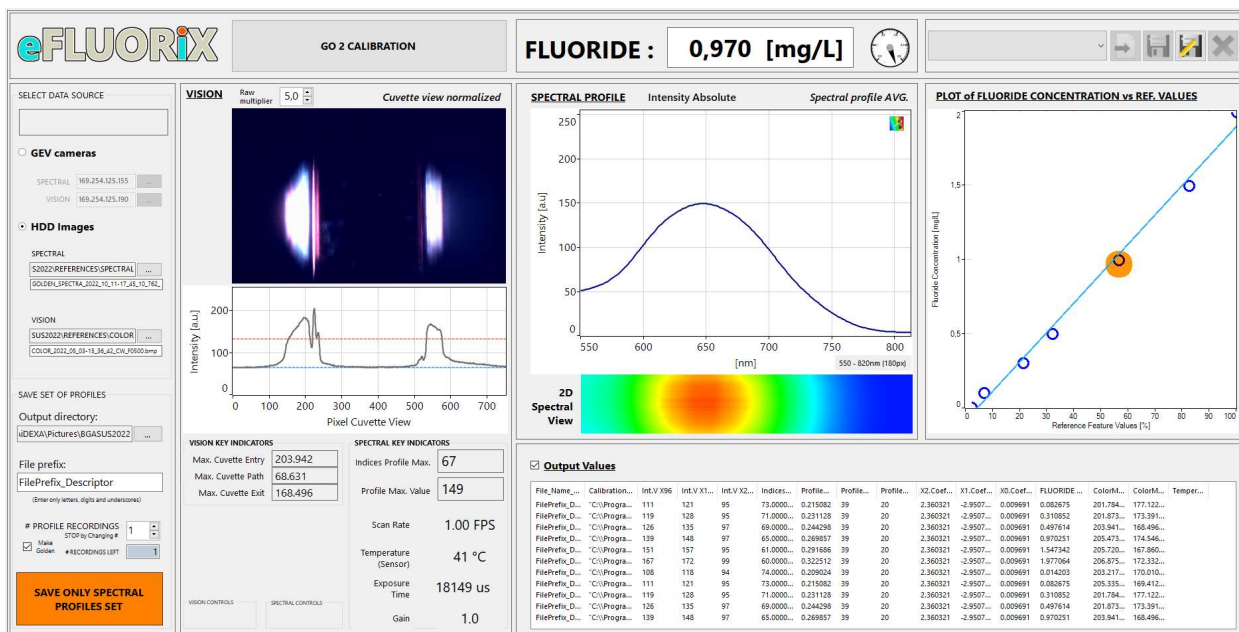


Specification

| | |
|-------------------------|--|
| 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 |
| Op. temperature: | 15 – 25 ° C, non-condensing |
| Light Source : | CoolWhite 6500 K LED, other on request |
| Spectrograph: | Transmissive, 15u slit, compound triple prism-based dispersion |
| 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: | FEHL 550nm, OD4 |
| Detector(s): | CMOS, Spectral, IMX226 Color Side View, MT9V022 |
| Data interface: | GigE Vision 1 Gigabit Ethernet |
| Production: | Austria / European Union |
| Recommended list price: | 15.000,- EURO, net |

DISCLAIMER: INTELLECTUAL PROPERTY RIGHTS ARE RESERVED BY AIDEXA GMBH. ALL PRODUCT SPECIFICATIONS AND DATA ARE SUBJECT TO CHANGE WITHOUT NOTICE TO IMPROVE RELIABILITY, FUNCTION, DESIGN OR OTHERWISE. AIDEXA GMBH DISCLAIMS ANY AND ALL LIABILITY FOR ANY ERRORS, INACCURACIES OR INCOMPLETENESS CONTAINED IN ANY DATASHEET OR IN ANY OTHER DISCLOSURE RELATING TO ITS PRODUCT.

eFLUORiX – Measurement and Calibration HMI



Acknowledgement: This product has been developed in the BGASUS project, with financial support from Österreichische Forschungsförderungsgesellschaft mbH (FFG), in the "FFG - Mobilität der Zukunft" programme; <https://projekte.ffg.at/projekt/3992980>

Bundesministerium
Klimaschutz, Umwelt,
Energie, Mobilität,
Innovation und Technologie

