



## QMIx LAMBDA SPECTROMETER MODULE

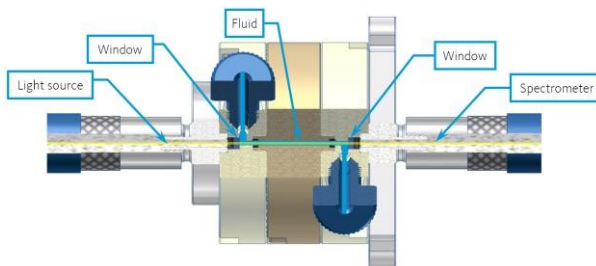
### DESCRIPTION

The spectrometer module Qmix Lambda houses a fast and precise online spectrometer for UV, VIS, or NIR applications (200 – 1100 nm). Due to different optical densities of each application setup, the module features a flow-measurement cell (z-cell) of different length. Besides the pre-configured version that covers most basic needs for a broad application range, CETONI offer a customizable version which can be tailored to your specific requirements.



### FLOW PERFORMANCE

In addition to the variable flow path length the choice of LED or SMA adapter for connection of an external light source provides you with a maximum of flexibility.



### PROCESS AUTOMATION VIA QMIXELEMENTS

The spectroscopy plugin for QmixELEMENTS is our solution for an optimal integration of Qmix Lambda spectrometer modules into your application. You can set parameters, such as integration time, define filters, use baseline correction, etc.).

The Chemometrics- Add-On feature automatically marks identified peaks in the spectrum and by using implemented scripting, POIs can be observed. Recorded spectrums can be exported as images or in the form of many other file formats, such as Excel-compatible CSV files.



### MECHANICAL DATA

Dimensions (L x W x H).....	310 x 55 x 90 mm
Measurement Channel Length.....	10 / 25 / 50 mm
Channel Internal Volume.....	16 / 23 / 34 µl
Fluidic Connection.....	10 – 32 UNF

### ENVIRONMENT

Operating Temperature.....	0 – 50 °C
Storage Temperature.....	-20 – 70 °C
Operating Humidity.....	20 – 90 %, non-condensing
Storage Humidity.....	20 – 90 %, non-condensing

### PERFORMANCE DATA

Wavelengths .....	UV (190 - 650 nm)
.....	VIS (350 - 800 nm)
.....	NIR (650 - 1100 nm)
Optical resolution.....	1,5 nm (25 µm slit)
Signal-to-noise Ratio.....	> 1500:1 (maximum signal)
A/D-Resolution.....	14 Bit
Integration Time.....	10 µs – 10 s
Light Source .....	LED or SMA 905 adapter

### ELECTRICAL DATA

Power Supply.....	USB
-------------------	-----

### WETTED PARTS

Material .....	Quartz glass, PEEK, PTFE, FKM
----------------	-------------------------------