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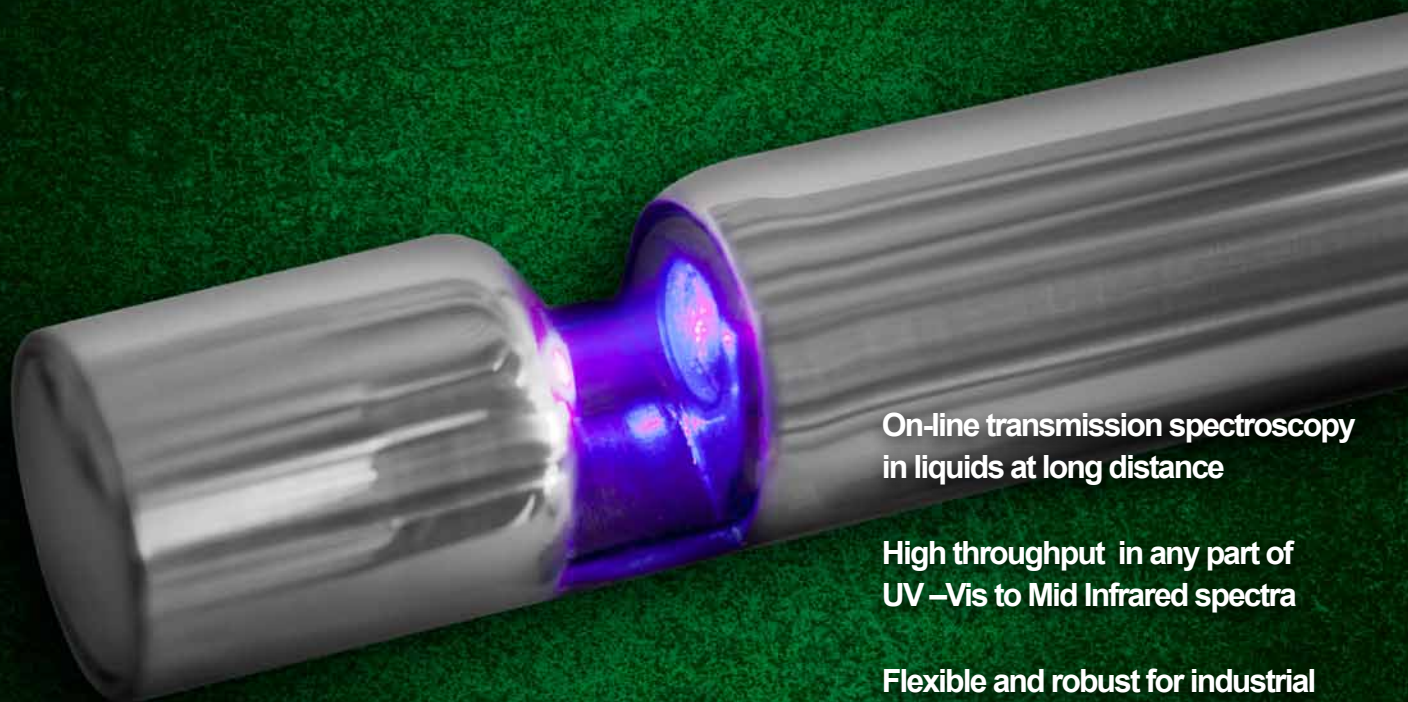


Fiber Optic Transmission and TransFlex Probe



art photonics

FlexiSpec[®]



On-line transmission spectroscopy
in liquids at long distance

High throughput in any part of
UV –Vis to Mid Infrared spectra

Flexible and robust for industrial
applications in harsh environment

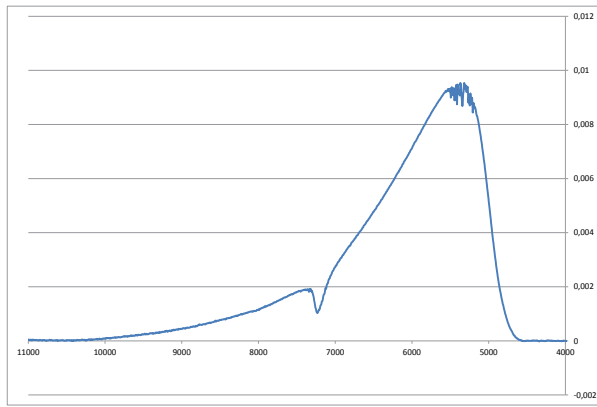
Compatible with all spectrometers
and automated process-interfaces

FlexiSpec[®] product line includes the latest generation of Transmission (single pass) & TransFlex (dual pass) fiber optic probes to be used with any spectrometer or photometer.

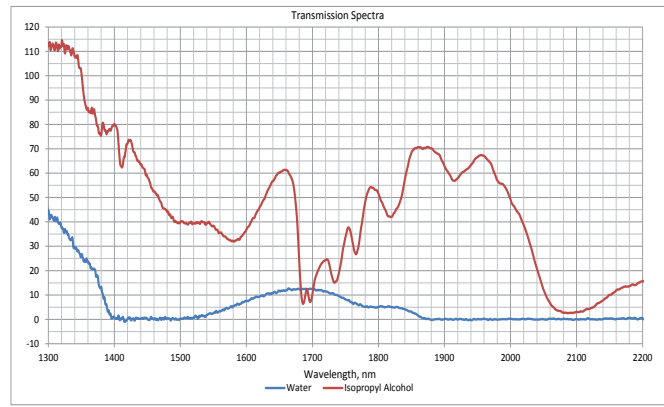
FlexiSpec[®] Single & Dual Pass fiber optic probes are compatible with process-interfaces to be cleanable and to enable reaction monitoring in lab, pilot plant and run full automated process control.

Applications:

- Reaction Monitoring in real time
- Process Analytical Technologies (PAT)
- Crystallization Development & Screening
- Analytical Characterization
- Biopharmaceutical Analysis
- Biofuel Development & Production



Transmission spectra of 100m long Trans-Probe



NIR-absorption of water and Isopropyl Alcohol

Specification of Fiber Optic Transmission and Transflection Probes *FlexiSpec®*

Probe type	Transmission		Transflection		
Transmission range	0,2 - 1,3 μm	0,4 - 2,2 μm	0,2 - 1,3 μm	0,4 - 2,2 μm	1,6 - 5,5 μm
Fiber type	Silica UV-Vis	Silica Vis-NIR	Silica UV-Vis	Silica Vis-NIR	CIR
Gap dimension	2; 5; 10; 20 mm	2; 5; 10 mm	2; 5; 10; 20 mm	2; 5; 10 mm	0.05 – 2.0 mm
Temperature range	$\leq 200^\circ\text{C}$	$\leq 200^\circ\text{C}$	$\leq 200^\circ\text{C}$	$\leq 200^\circ\text{C}$	$\leq 100^\circ\text{C}$
Minimum Bending Radius	120 mm (for 600 μm core)				130 mm

Common Parameters of Fiber Optic Transmission and Transflection Probes *FlexiSpec®*

Total Length	1,5 m (opt: 1 – 30m) *
Shaft Length	230mm (opt: 50 – 500mm) *
Shaft Diameter	12mm
Shaft Material	SS, Hastelloy C22
Protective Tube Material	Liquid Tight SS-Conduit, KOPEX-Tube
Input / Output Connectors	Long SMA; FC/PC; ST
Compatible Process-Interfaces	Ceramat-FOS or SensoGate-FOS



*Customized dimensions are available on request

