

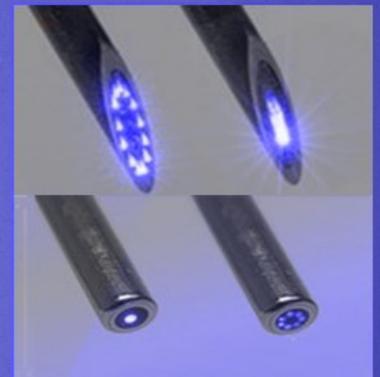
Fiber Optic Reflectivity and Fluorescence



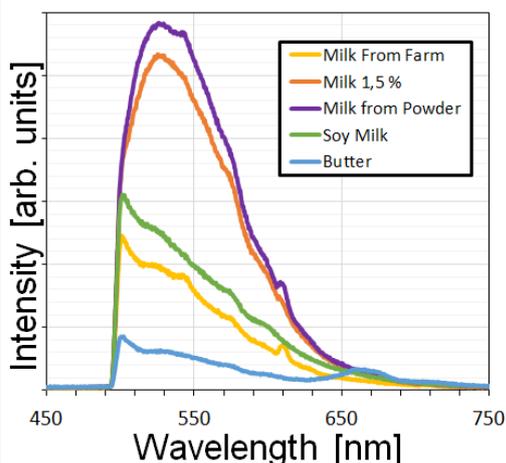
art photonics

FlexiSpec ®

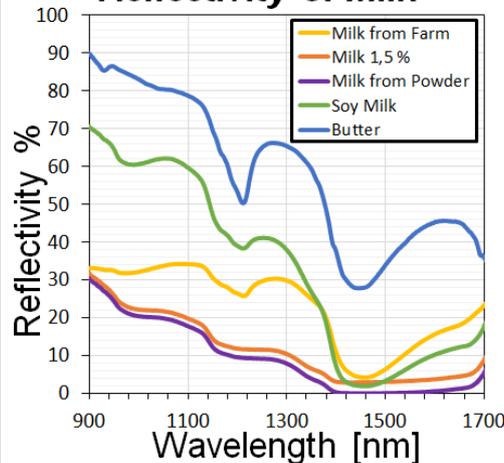
- ◇ Metal coated fibers for minimal cross talk.
- ◇ Thinnest probe tip with diameter 0.5 mm (Type A).
- ◇ Customizable: tip, bundle, detection geometry.



Fluorescence of Milk



Reflectivity of Milk



Some Applications:

- Biomedical
- Biotechnology
- Material Science
- Food & Drink
- Chemical/Petrochemical
- Pharmaceutical
- Research & Development

Spectra acquired with the (7+1) Type A probe

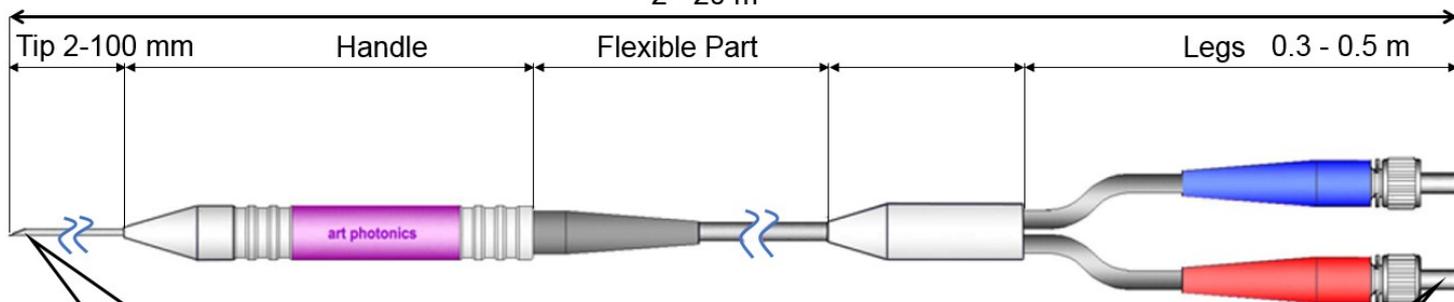
broad spectra fiber solutions

Specifications

Wavelength Range:	190 - 1300 nm (UV/VIS) / 350 - 2200 nm (VIS/NIR)
Operating Temperature:	-20 °C to 80 °C (PEEK -70 °C to +200 °C) (SS Steel till +400 °C)
Pressure:	10 Bar (on request)
Bend Radius Body:	80 - 160 mm (long term proof test on request)
Fiber Core ø [µm]	Detecting Fibers: 50, 100, 200, 300/ Illuminating Fibers: 100, 200, 300,400 NA = 0.22 ± 0.02

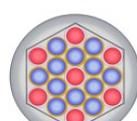
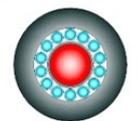
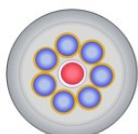
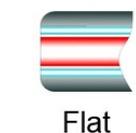
Customizable Design:

2 - 20 m



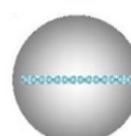
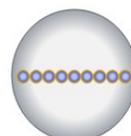
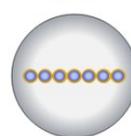
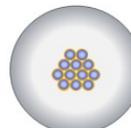
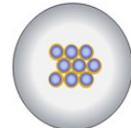
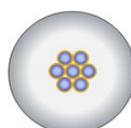
Different Excitation Bundles:

SS steel tips:



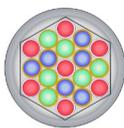
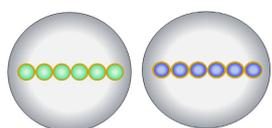
SMA-905; FC/PC or ST connectors

Round, Line or Custom Type Detection Bundles:



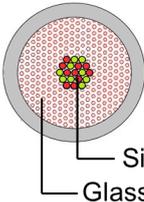
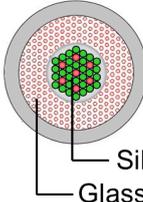
High Sensitivity Versions:

Split design with two detection legs enables contemporary measurements with two different spectrometers:

Type E: 2 Detection Legs	7 Al coated excitation Fibers		2 Detection Legs (6+6 Fibers)	
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Probe with Glass Fibers Structure:

Specially developed for multiple LED excitation and detection of weak signals:

Type F: Glass Bundle + Silica Bundle	Version 1		LED1 LED2	High NA Glass Fibers	Det1 Det2	2 Channels Randomized detection fibers (9+10) Al/PI jacket
	Version 2		LED1 LED2	High NA Glass Fibers	Det1 Det2	2 Channels Randomized detection fibers (7+30) Al/PI jacket