

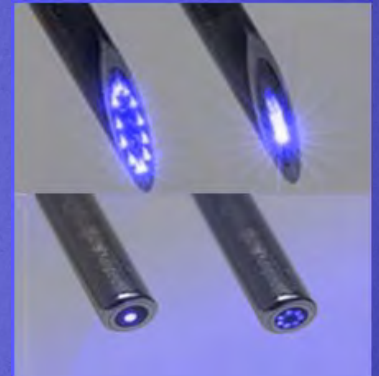
# Fiber Optic Reflectivity and Fluorescence



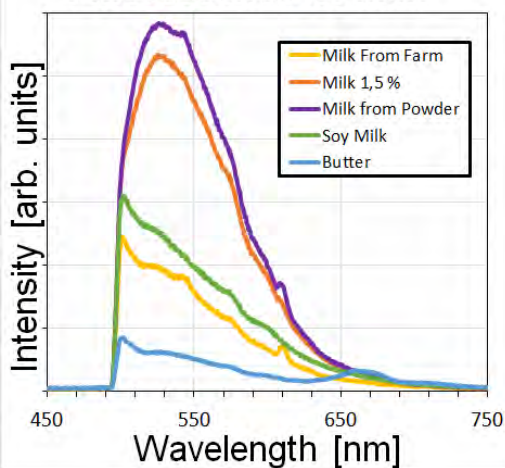
art photonics

FlexiSpec ®

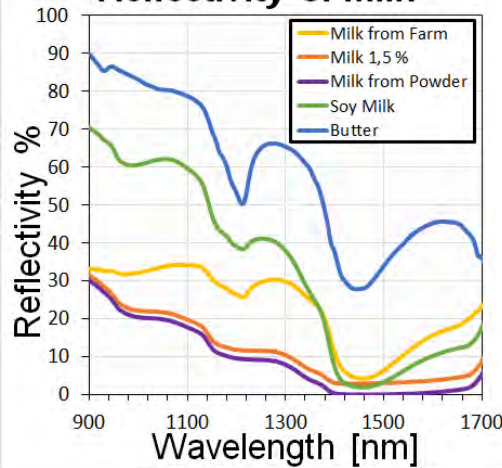
- ◇ Metal coated fibers for minimal cross talk.
- ◇ Thinnest probe tip with diameter 0.5 mm (Type A).
- ◇ Customizable: tip, bundle, detection geometry.



**Fluorescence of Milk**



**Reflectivity of Milk**



Some Applications:

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

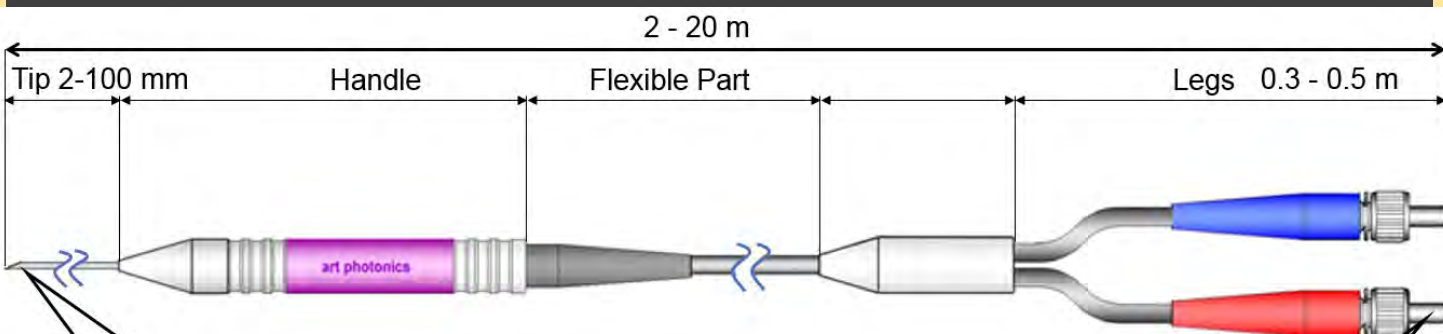
Spectra acquired with the (7+1) Type A probe

**broad spectra fiber solutions**

# Specifications

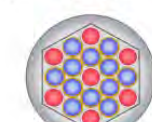
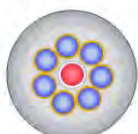
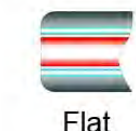
<b>Wavelength Range:</b>	190 - 1300 nm (UV/VIS) / 350 - 2200 nm (VIS/NIR)
<b>Operating Temperature:</b>	-20 °C to 80 °C (PEEK -70 °C to +200 °C) (SS Steel till +400 °C)
<b>Pressure:</b>	10 Bar (on request)
<b>Bend Radius Body:</b>	80 - 160 mm (long term proof test on request)
<b>Fiber Core ø [µm]</b>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

## Customizable Design:



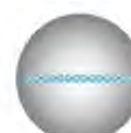
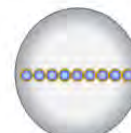
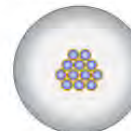
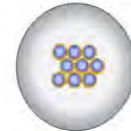
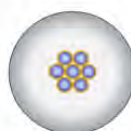
### Different Excitation Bundles:

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:

<b>Type E: 2 Detection Legs</b>	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:

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

## Want to know more?

For sales, technical support or additional information please get in touch with our team of experts.

### ADDITIONAL SERVICES

## We provide an end-to-end service

From the initial consultation and sourcing unique components to supplying bespoke solutions including a full design and build process.

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### Sourcing

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### Design & Build

Development and manufacturing services

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