



Discover LVF range of **ATR-Loop fiber probes** :

Our ATR-Loop fibers probes are designed to use with FTIR and other Mid-IR spectrometers. They are suitable for low cost ATR spectroscopy.

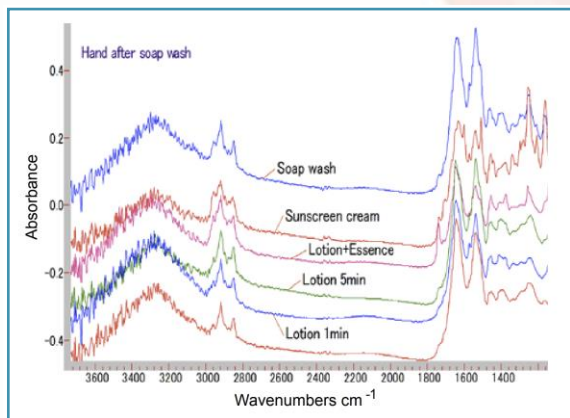
Applications

- Remote evanescent absorption (ATR-) spectroscopy
- Multiple ATR-spectroscopy by immersion of fiber loop in liquid
- In-vivo molecular spectroscopy for medical diagnostics by simple touch of ATR-Loop on skin or tissue

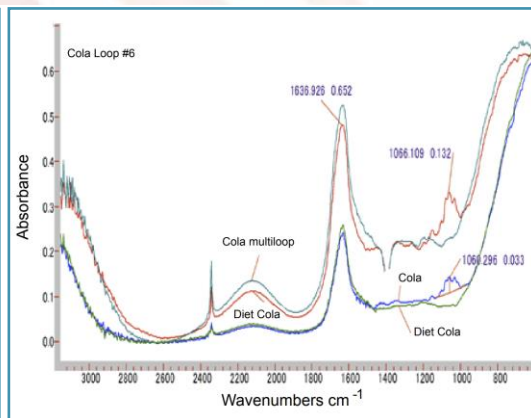
Features

- High throughput at Mid InfraRed range
- On-line absorbance spectroscopy of liquids, pastes & soft solid surfaces
- Compatible with all FTIR, QCL and IR- Filter spectrometers
- Cost effective alternative to more expensive ATR-IR-fiber probes
- Replaceable ATR Loop PIR-Fiber Tips

Absorbance spectra



Skin absorption spectra with ATR Probe



Cola spectra with Detachable Loop Probe (DLP-Probe)





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Specifications

Probe type	Fiber Type	Transmission range	Temperature range
Polycrystalline-IR (PIR)	Silver Halide (AgCl:AgBr)	4 – 17 μm 2500-600 cm^{-1}	$\leq 100^\circ\text{C}$
Chalcogenide-IR (CIR)	Chalcogenide glass (As-S)	1.1 – 6 μm 6500-1700 cm^{-1}	$\leq 90^\circ\text{C}$

Parameters

	Total length	1.5m (opt.: PIR up to 5m, CIR up to 10m)*
	Shaft length	120mm*
	Shaft diameter	10mm
	Shaft material	PEEK
	Length of legs	500mm (opt.: 200mm to 500mm)
	Protective tube material	PEEK
	Input/output connectors	Long SMA (opt.: any other type)
	Detachable PIR fiber loop	Loop: Multi-Loop (Double-, Triple-Loop, etc..)

*Customized dimensions are available on request

