ATR-Loop InfraRed Fiber Optic Probes

art photonics



FlexiSpec®

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 ATR-IR fiber probes

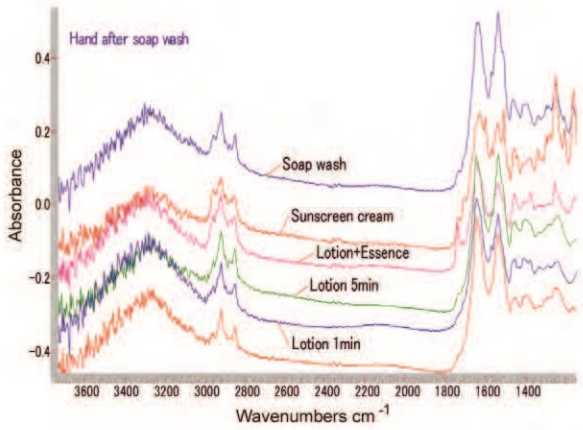
Replaceable ATR Loop PIR-Fiber Tips

ATR-Loop Infrared PIR-fiber probe was the first in ***FlexiSpec***® product line designed for use with FTIR and other Mid IR spectrometers. ATR-Loop PIR-fiber probes are perfect for remote analysis of composition of liquids, pastes and soft surfaces with no need in sample preparation.
Loop fiber probe is the simplest one in ***FlexiSpec***® product family to enable low cost ATR-spectroscopy

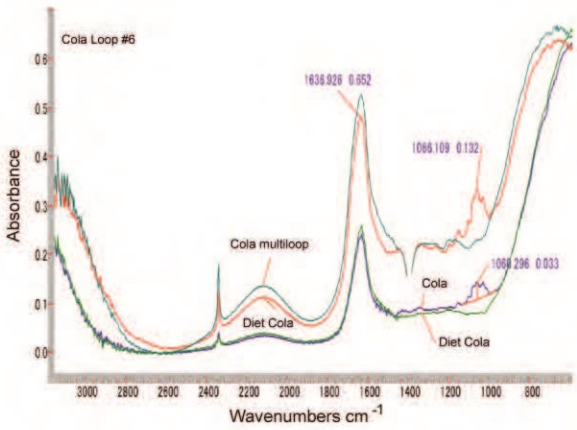
Applications:

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

Skin Absorption Spectra with ATR-Probe



Cola Spectra with DLP-probe



Specification of Fiber Optic ATR-Loop Probes *FlexiSpec*®

Probe type	**Chalcogenide-IR (CIR)**	**Polycrystalline-IR (PIR)**
Transmission range	6500 – 1700cm $^{-1}$	3300-550 cm $^{-1}$
Fiber type	Chalcogenide glass (As-S)	Silver Halide (AgCl:AgBr)
Temperature range	≤ 90°C	≤ 100°C

Common Parameters of Fiber Optic ATR-Loop Probes *FlexiSpec*®

Total Length	1m (opt.: PIR up to 5m, CIR up to 10m) *
Shaft Length	120mm *
Shaft Diameter	10mm
Shaft Material	PEEK
Protective Tube Material	PEEK
Input / Output Connectors	Long SMA-905 (opt.: any other type)
Detachable PIR fiber Loop	Loop; Multi-Loop (Double-, Triple-Loop, etc.) *

*Customized dimensions are available on request





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