

Bringing light into your customized, complex or extreme environment is our challenge!

Reflection probe fiber bundles for high-temperature applicationsHervé AUBÉClaire GUYONNET

Business Line Manager

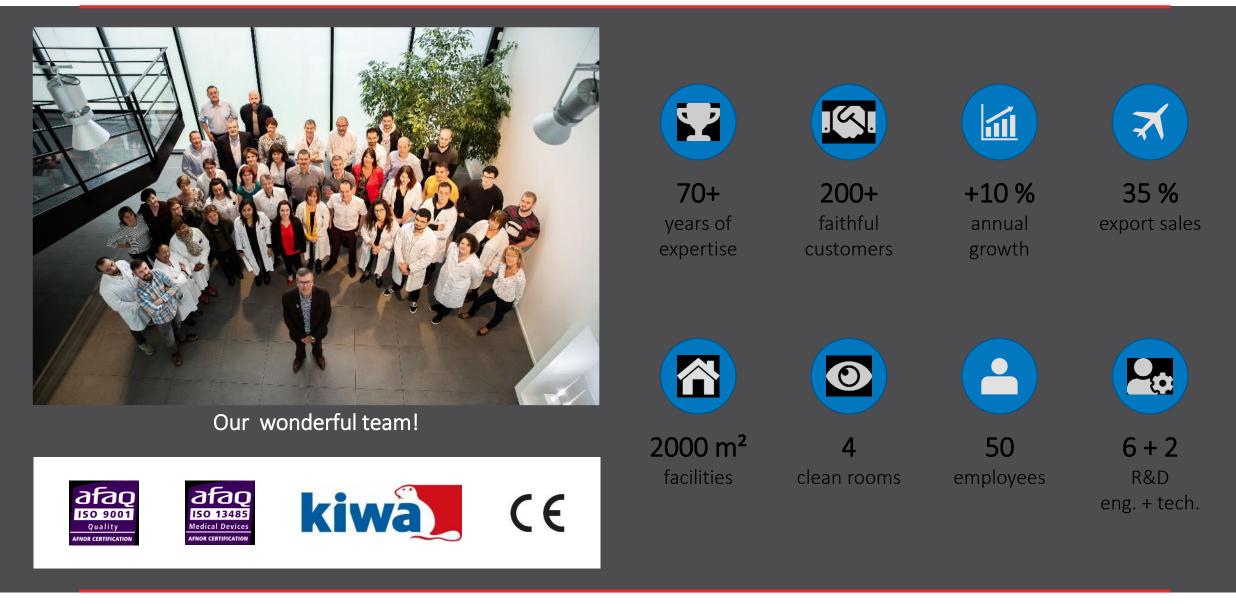
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About • SEDI-ATI





Our business • activity

Bringing light into your customized, complex or extreme environment is our challenge!



Environments



Applications



Products and solutions

Extreme • environments



Extreme temperatures	Extreme pressures	Radiations
Cryogenic temp. down to -273°C	Ultra-high-vacuum down to 10⁻¹¹ mbar	Radiations up to 100 Mgray
High temperatures up to +1000°C	Hyperbare up to 5000 bars	UV solarization down to 200 nm
High-voltage Dielectric breakdown up to 1 kV/cm	Hostile atmospheres Corrosive or abrasive: SF6 gas, Hydrogene, oil, chemicals, sand, mud, rocks, moisture, sea salt, dust Electromagnetic fields	Extreme conditions Mechanical stress: shocks, vibrations, accelerations up to 20 G, stretching, bending

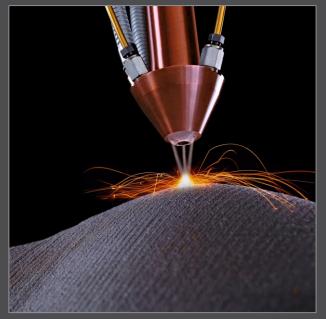
High-temperature • applications



On/Off sensors

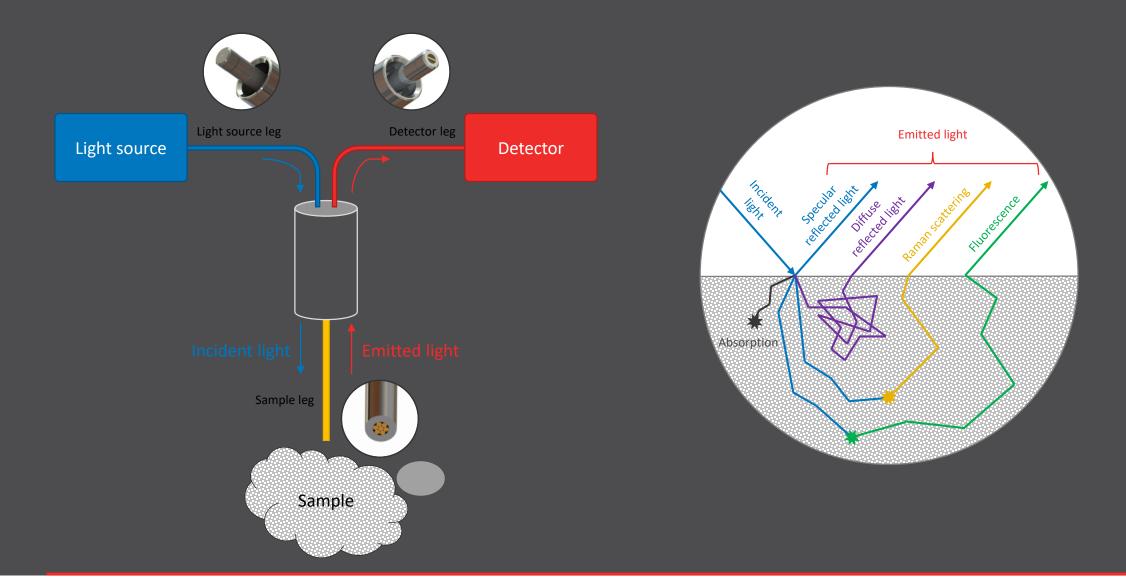


Tip-timing



Reflection spectroscopy

Basic principle of reflection probe fiber bundles

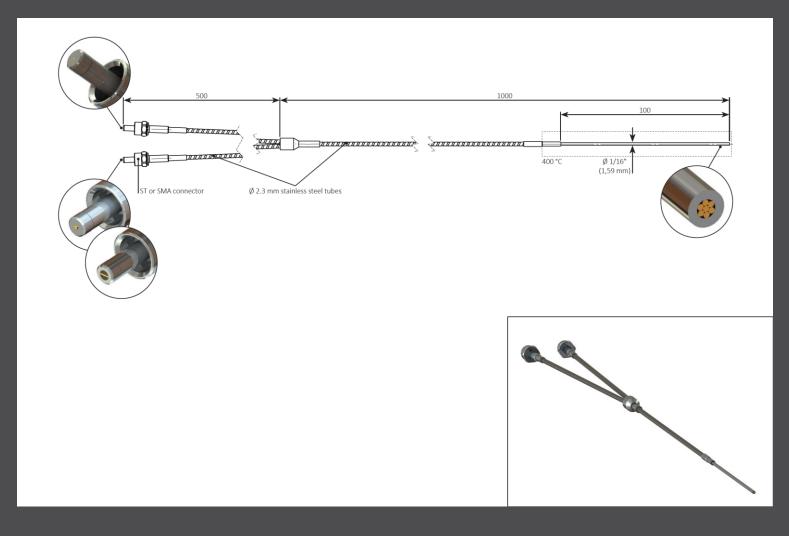




(6+1) reflection probe fiber bundles for up to +400°C applications

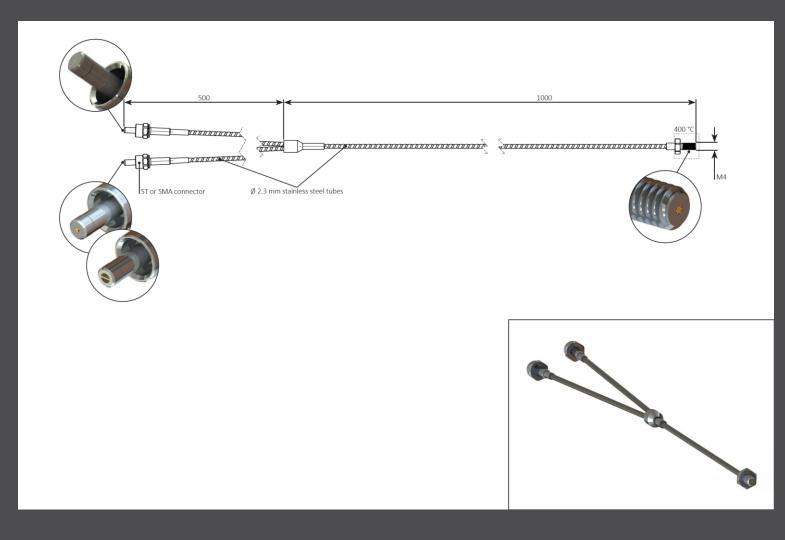


Y-cable bundle with Ø1/16" probe



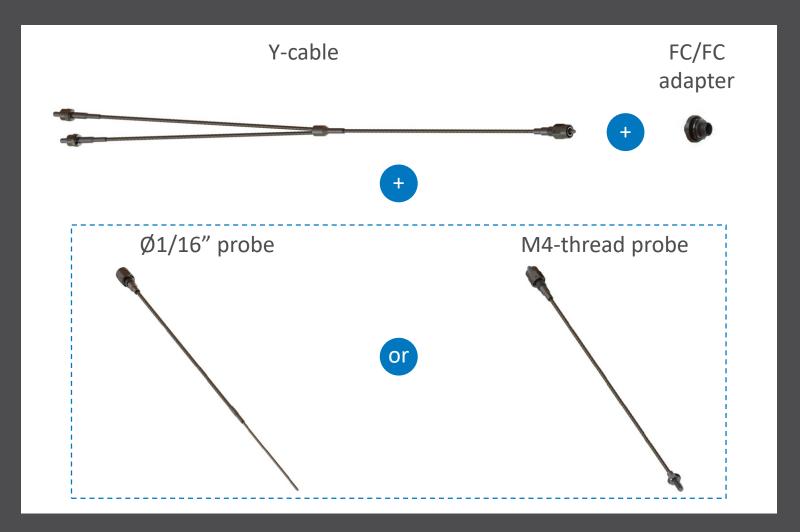
- Light source leg: 1 fiber
- Detector leg: 6 fibers in round or linear bundle
- Sample leg: 7 fibers in round bundle
- Connectors: ST or SMA
- Probe: Ø1/16" (1,59 mm) x 100 mm probe barrel
- Fibers: Ø200 μm core silica/silica
- Wavelength ranges: VIS-NIR or UV-VIS
- Protective tubings: Ø2.3 mm stripwound hose type tube in stainless steel 304 alloy
- 100% inorganic materials

Y-cable bundle with M4-thread probe



- Light source leg: 1 fiber
- Detector leg: 6 fibers in round or linear bundle
- Sample leg: 7 fibers in round bundle
- Connectors: ST or SMA
- Probe: M4 thread tip
- Fibers: Ø200 μm core silica/silica
- Wavelength ranges: VIS-NIR or UV-VIS
- Protective tubings: Ø2.3 mm stripwound hose type tube in stainless steel 304 alloy
- 100% inorganic materials

Disconnectable Y-cable bundle



Disconnectable versions with a specific multichannel FC/FC adaptor to interconnect the different parts.

Next level: going beyond +800°C!



Straight and angled probe tips

Reflection probe fiber bundles for high-temperature applications



The unachievable becomes feasible. Share your dreams with us!

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